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Annual Report
of the
President
of the
Borough of Queens
1917

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ANNUAL REPORT

OF THE

PRESIDENT

OF THE

BOROUGH OF QUEENS

1917

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MAURICE E. CONNOLLY, PRESIDENT

CITY OF NEW YORK
Office of the
PRESIDENT OF THE BOROUGH OF QUEENS

Long Island City, May 8, 1919.

Hon. John F. Hylan, Mayor,
The City of New York.

Sir:

In compliance with the provisions of the Charter of the City of New York I submit herewith a report showing the operations of the various departments under my supervision for the year ended December 31, 1917.

Yours very truly,

FRANK X. SULLIVAN,
Acting President of the Borough of Queens.

OFFICIALS OF THE BOROUGH OF QUEENS, 1917

<i>President of the Borough</i>	MAURICE E. CONNOLLY
<i>Commissioner of Public Works</i>	RICHARD S. NEWCOMBE
<i>Secretary of the Borough</i>	MASON O. SMEDLEY
<i>Assistant Commissioner of Public Works</i>	JAMES BUTLER
<i>Superintendent of Highways</i>	G. HOWLAND LEAVITT
<i>Superintendent of Sewers</i>	JOHN R. HIGGINS
<i>Superintendent of Street Cleaning</i>	DANIEL EHNTHOLT
<i>Superintendent of Public Buildings and Offices</i>	JOSEPH SULLIVAN
<i>Superintendent of Building Construction and Alteration</i> ..	JOHN W. MOORE
<i>Engineer in Charge of Construction</i>	JAMES RICE
<i>Engineer in Charge of Topographical Bureau</i>	CHARLES U. POWELL

THE CITY OF NEW YORK

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS

MAURICE E. CONNOLLY, *President.*

The Charter of The City of New York provides that the President of the Borough shall submit to the Mayor, annually, a report showing the operations of the various departments under his supervision. A summarized report for the year ended December 31, 1917, has been prepared and is herewith transmitted.

The City of New York is divided into five boroughs for the purpose of administering the functions of municipal government that are local in character. The Borough of Queens consists of the territory known as Queens County and the electors thereof elect a President for a term of four years. By virtue of his office the President is a member of the local boards of every district of local improvement in his borough and is chairman thereof. The President is also a member of the Board of Estimate and Apportionment and a member of the Board of Aldermen. The President has control of regulating, grading, curbing, flagging and guttering of streets and laying of cross-walks, of constructing and repairing public roads, of paving, repaving, resurfacing and repairing of all streets, and of the re-laying of all pavement; of the laying of surface railroad tracks, the filling of sunken lots, fencing of vacant lots, digging down lots, licensing vaults under sidewalks, removal of encumbrances, the issue of permits to use or open the streets. He has control of the construction and maintenance of all bridges and tunnels except such bridges as cross navigable streams; the construction and supervision of sewers, of the construction, repairs, cleaning and maintenance of public buildings (except school houses, almshouses, penitentiaries and fire and police station houses), of the care and cleaning of all offices occupied for public use; of the location, establishment, care, erection and maintenance of the public baths, public urinals and public comfort stations; and of the placing of all street signs, of the cleaning of the streets, the removal of ashes, street sweepings and garbage; of the framing of regulations controlling the use of sidewalks and gutters.

The office of the President of the Borough is divided into eight bureaus, each of which performs certain designated functions. These bureaus are: (1) Administration, (2) Highways, (3) Engineering Construction, (4) Sewers, (5) Street Cleaning, (6) Public Buildings and Offices, (7) Topographical, (8) Supervision of Building Construction and Alteration.

LOCAL BOARDS

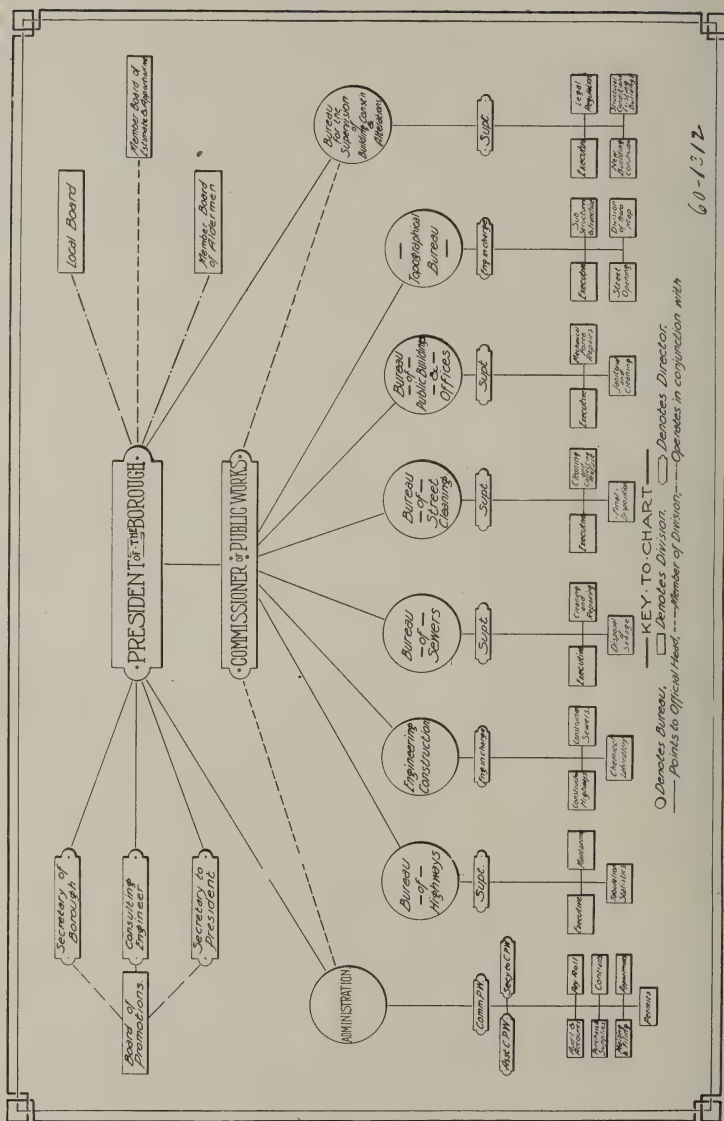
For the purposes of home rule and local improvements the Borough of Queens is divided into two districts, called Newtown (Wards 1 and 2) and Jamaica (Wards 3, 4 and 5). In each of these districts is a board of local improvements known as "the local board," entrusted with the powers prescribed by the Charter. The local boards have jurisdiction over those subjects or matters the costs and expenses whereof are a charge upon the people or property of the district for local administration within such district. The local board consists of the President of the Borough and each member of the Board of Aldermen who represents an Aldermanic district within such local improvement district.

LOCAL BOARDS, BOROUGH OF QUEENS
REPORT OF THE YEAR 1917.

Number of Petitions Considered				Improvements Initiated				Kind	Total Estimated Cost of Improvements Initiated
1st Quar- ter	2nd Quar- ter	3rd Quar- ter	4th Quar- ter	1st Quar- ter	2nd Quar- ter	3rd Quar- ter	4th Quar- ter		
10	26	8	18	8	23	8	17	For sewer construction	\$5,237,950.00
2	5	2	1	2	4	2	1	For construction of basins in accordance with Section 435 of the Greater New York Charter	
6	8	1	2	5	8	1	2	For regulating, grading and guttering	4,792.00
11	10	7	8	10	7	7	6	For curbing, recubing, laying sidewalks and crosswalks, in accordance with Section 435 of the Greater New York Charter	408,720.00
3	6	..	..	3	6	..	..	For regulating, grading and laying sidewalks For regulating, grading, curbing, laying sidewalks and crosswalks	20,860.00
9	7	2	5	9	7	1	3	For paving	81,200.00
10	17	..	2	8	14	..	0	For regulating, grading, curbing, laying side- walks and paving	221,110.00
6	4	1	4	4	4	1	3	For amending map	250,000.00
1	9	4	1	1	7	4	1	For acquiring title	149,430.00
5	9	9	2	4	9	9	1	For legally closing	
1	1	..	..	1	0	..	..	Miscellaneous	
2	..	..	..	2	..	..	..	For amendment of zones	
9	7	4	8	9	4	3	8	For water	
3	3	2	1	3	3	2	1	For gas and electricity	
5	6	3	6	5	6	3	6		
83	118	43	58	74	102	41	49		\$6,373,462.00

RESOLUTIONS RECONSIDERED

Amended	53
Rescinded	70
Filed	4
Petitions denied	29



60-1312

BUREAU OF ADMINISTRATION

The main offices of the President of the Borough of Queens are located in the Queens Subway Building, Van Alst and Hunterspoint Avenues, Long Island City, and housed in this building are the offices of the Commissioner of Public Works, the Consulting Engineer and the Secretary of the Borough.

GENERAL ADMINISTRATION

The directors designated for the several bureaus are as follows:

Administration	Director—The Commissioner of Public Works
Highways	Director—The Superintendent of Highways.
Engineering Construction	Director—The Engineer in Charge.
Sewers	Director—The Superintendent of Sewers.
Street Cleaning	Director—The Superintendent of Street Cleaning.
Public Buildings and Offices.....	Director—The Superintendent of Public Buildings and Offices.
Topographical	Director—The Engineer in Charge.
Supervision of Building Construction and Alteration	Director—The Superintendent of Building Construction and Alteration.

The divisions of the several bureaus and the chiefs of each division are as follows:

ADMINISTRATION

Audit and Accounts	Chief—The Chief Clerk.
Pay Rolls	Chief—The Clerk in Charge.
Purchase and Storage of Supplies....	Chief—The Purchasing Agent.
Appointments	Chief—The Clerk in Charge.
Contracts	Chief—The Clerk in Charge.
Mailing and Filing	Chief—The Clerk in Charge.
Permits	Chief—The Cashier.

HIGHWAYS

Executive	Chief—The Chief Clerk.
Maintenance—Roadways, Viaducts and Streets	Chief—The Ass't. Engineer in Charge.
Tabulation and Statistics	Chief—The Ass't. Engineer in Charge.

ENGINEERING CONSTRUCTION

Highways	Chief—The Ass't. Engineer in Charge.
Sewers	Chief—The Ass't. Engineer in Charge.
Chemical Laboratory	Chief—The Chemist in Charge.

SEWERS

Executive	Chief—The Chief Clerk.
Cleaning and Repairing	Chief—The Ass't. Engineer in Charge.
Disposal	Chief—The Ass't. Engineer in Charge.

STREET CLEANING

Executive	Chief—The Chief Clerk.
Street Cleaning and Collection Refuse.	Chiefs—The District Superintendents.
Final Disposition	Chiefs—The Foremen in Charge.

PUBLIC BUILDINGS AND OFFICES

Executive	Chief—The Chief Clerk.
Maintenance of Offices and Office Buildings	Chief—The Foreman in Charge.
Maintenance and Operation Baths and Comfort Stations	Chief—The Foreman in Charge.

TOPOGRAPHICAL

Executive	Chief—Chief Clerk.
Substructures and Franchises	Chief—Assistant Engineer in Charge.
Street Openings	Chief—Assistant Engineer in Charge.
Borough Map	Chief—Assistant Engineer in Charge.

SUPERVISION OF BUILDING CONSTRUCTION AND ALTERATION

Executive	Chief—The Chief Clerk.
New Building Construction and Alteration	Chief—The Chief Inspector.
Structural Conditions in Existing Buildings	Chief—The Chief Inspector.
Legal Regulation	Chief—The Chief Inspector.

REPORT OF THE BUREAU OF ADMINISTRATION FOR THE YEAR ENDED DECEMBER 31, 1917. DIVISION OF AUDIT AND ACCOUNTS

The auditing of all revenues and disbursements of the office of the President of the Borough of Queens, as well as all accounting work, the keeping of Stores Ledgers for all stores in the Borough, and the Expense distribution of all activities, statistical information and all financial statements are prepared in this division.

The following statement, as of December 31, 1917, is self explanatory:

DIVISION OF AUDIT AND ACCOUNTS APPROPRIATIONS 1916 AND PRIOR YEARS

Cash Balance as at December 31, 1916	\$121,221.87
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Addition

Cash deposited, transfers, adjustments and reconciliations.....	5,291.18
---	----------

Total Cash	\$126,513.05
------------------	--------------

Less

Transfers to General Fund, Journal adjustments, etc.....	37,124.38
Net funds available for 1917.....	<u>\$89,388.67</u>

Disbursements

Amount (net) of vouchers, registered and transmitted to the Department of Finance during the year 1917.....	85,745.26
Cash Balance as at December 31, 1917.....	<u>\$ 3,643.41</u>

Reserves

For Contracts	\$2,337.79
For Open Market Orders.....	570.71
Total Reserves as of December 31, 1917.....	<u>\$ 2,908.50</u>
Unencumbered balance as at December 31, 1917..	<u>\$ 734.91</u>

APPROPRIATIONS 1917

Budget Allowance as of January 1, 1917.....	\$2,123,084.35
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Addition

Cash deposited during the year 1917.....	\$ 149.32
Transfers as per Resolutions of the Board of Estimate and Apportionment during the year 1917.....	<u>26,269.37</u>
Total additions 1917.....	<u>26,418.69</u>
Total Cash	<u>\$2,149,503.04</u>

Less

Transfers of accruals, as per Resolutions of the Board of Estimate and Apportionment, during the year 1917.....	12,906.85
Net cash available for year 1917.....	<u>\$2,136,596.19</u>

Disbursements

Amount (net) of vouchers registered and transmitted to the Department of Finance during the year 1917.....	2,037,993.08
Cash Balance as at December 31, 1917.....	<u>\$ 98,603.11</u>

Reserves

For Contracts	\$50,413.08
For Open Market Orders.....	<u>14,770.87</u>
Total Reserves as of December 31, 1917.....	<u>65,183.95</u>
Unencumbered balance as at December 31, 1917.	<u>\$ 33,419.16</u>

Functional

Personal Service

Salaries, Regul
Salaries, Temp
Wages, Regula
Wages, Tempo

Supplies

Botanical Supp
Office Supplies
General Plant
Forage and Ve
Fuel Supplies.
Laundry, Clea
Motor Vehicle
Food Supplies.

Materials

Building Mate
General Plant
Highway Mat
Sewer Materia

Equipment Issue

General Plant
Motorless Veh
Motor Vehicle
Office Equipm
Wearing Appa

Contract or Oper

General Repai
Motor Vehicle
Transportation
Hire of Hor
Hire of Hor
Hire of Auto
Carfare.....
Expressage :
Storage of M
Shoeing and
Communicatio
Telephone S
Telegraph, C
General Plant

Contingencies

Made by
Departmental L

Charges to Spec

Total Expenses

Work Performed

Unit Cost

Unit of Measure

The Following is a Statement Showing the Expense Distribution by Functional Budget Classification for the Year Ended December 31, 1917.
Summary by Bureaus.

DIRECT CHARGES		General Administration		Bureau of Highways		Bureau of Street Cleaning		Bureau of Sewers		Bureau of Public Buildings and Offices		Bureau of Supervision of Building Construction and Alteration		Bureau of Topography		Bureau of Engineering Construction		SUMMARY	
Functional Budget Classification	Code	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Departmental Service	Contract or Open Market Order Service	Sub-Totals	Totals
Personal Service		\$86,882.31		\$418,508.52		\$290,813.44		\$129,492.07		\$75,641.13		\$79,584.60		\$164,820.23		\$45,759.53		\$1,291,501.83	\$1,291,501.83
Salaries, Regular Employees.....	01																		
Salaries, Temporary Employees.....	02																		
Wages, Regular Employees.....	03																		
Wages, Temporary Employees.....	04																		
Supplies																			
Botanical Supplies.....	04																		51,876.65
Office Supplies.....	05	1,765.72		170.93		40.00		30.67		1,993.15		89.45		161.85		132.91		4,384.68	
General Plant Supplies.....	06	79.77		1,254.23		39.46		381.33		583.48				1,515.23		1,227.23		5,080.73	
Forage and Veterinary Supplies.....	07																		
Fuel Supplies.....	08			11,291.80		693.43		7,647.62		10,241.45								29,874.30	
Laundry, Cleaning, Disinfecting, etc.....	09					662.55		5,391.02		486.05								6,539.62	
Motor Vehicle Supplies.....	10	1,353.71		1,943.92		1,009.29		564.51				566.44		424.36		135.09		5,997.32	
Food Supplies.....	11																		
Materials																			
Building Materials.....	20			408.96		82.87		377.87		3,257.05									227,341.39
General Plant Materials.....	21			3,106.44		652.47		953.02		1,374.27								4,126.75	
Highway Materials.....	22			214,800.08										74.12				6,160.32	
Sewer Materials.....	23							2,254.24										214,800.08	
																		2,254.24	
Equipment Issued as Consumable Stores																			
General Plant Equipment.....	40	126.08		7,611.85		4,601.44		2,014.86		1,411.11				3,224.59		1,355.07		20,345.00	35,065.88
Motorless Vehicles and Equipment.....	42					3,968.35												3,968.35	
Motor Vehicles and Equipment.....	43	3,663.70		713.26		681.25		836.42				611.84		289.87		79.79		6,876.13	
Office Equipment.....	44	1,617.59		18.51		124.05		101.40		138.88		159.95		419.38		699.52		3,279.28	
Wearing Apparel.....	45	11.50		56.29				515.41								13.92		597.12	
Contract or Open Market Order Service																			
General Repairs.....	60	46.75		20,201.77		530.10		5,261.70		2,064.17		4.25		409.44		147.14		28,664.72	565,824.92
Motor Vehicle Repairs.....	61	709.57		743.05		592.03		36.97				191.26		129.15		77.80		2,479.83	
Transportation.....	62																		
Hire of Horses and Vehicles with Drivers.....	0001			131,869.61		316,935.59		23,919.10		240.00				1,113.50				474,077.80	
Hire of Horses and Vehicles without Drivers.....	0002			5,680.00				2,880.00										8,560.00	
Hire of Auto Truck.....	0003			725.00														725.00	
Carfare.....	0004	370.41		4,838.25		1,206.21		466.44		417.80		2,101.74		2,620.31		3,059.36		15,080.52	
Expressage and Delivery.....	0005	7.65		15.96		3.07		3.88		1.81				2.12		.35		34.84	
Storage of Motor Vehicles.....	0006	942.25		500.00		1,340.00		240.00				480.00		425.00		120.00		4,047.25	
Shoeing and Boarding Horses, etc.....	0007					270.00												270.00	
Communication.....	63																		
Telephone Service.....	0008			2.00		.95		11.80		1,929.47				37.21		73.66		2,055.09	
Telegraph, Cable and Messenger Service.....	0009																		
General Plant Service.....	74	324.65		1,612.85		13,877.50		11,292.36		585.70		6.00		2,086.55		44.26		29,829.87	
Contingencies		245.38				14.25		1.40		1,365.81		24.60		20.76		10.50		1,682.70	1,682.70
Made by	{	Supplies.....																	
Departmental Labor		Materials.....																	
		Equipment.....																	
Charges to Special and		Trust Funds.....																	
Total Expenses	{	Current Period.....																	
		To Date.....	98,147.04		826,072.68		638,138.30		194,674.09		101,731.33		83,820.13		177,773.67		52,936.13		2,173,293.37
Work Performed	{	Current Period.....																	
		To Date.....																	
Unit Cost	{	Current Period.....																	
		To Date.....																	
Unit of Measure.....																			

SPECIAL REVENUE BOND FUNDS

Cash Balance as at December 31, 1916..... \$ 44,093.45

Additions

Authorizations for account code RFM during year
1917 \$5,413.65
Authorizations as per Resolution of the Board of
Estimate and Apportionment during the year 1917.... 73,853.75
Authorizations-adjustments during the year 1917.. 13,157.63

Total additions, 1917..... 92,425.03

Total Cash \$ 136,518.48

Less

Transfers—closing out balances as per resolution Board of
Estimate and Apportionment during 1917 1,200.00

Net Cash Available for year 1917..... \$ 135,318.48

Disbursements

Amount (net) vouchers, registered and transmitted to the De-
partment of Finance during the year 1917..... \$103,394.13

Cash balance as at December 31, 1917..... \$ 31,924.35

Reserves

For contracts \$3,932.90
For open market orders..... 2,894.35
For payrolls, etc..... 25,000.00

Total Reserves as of December 31, 1917..... \$ 31,827.28

Unencumbered balance as at December 31, 1917. \$ 97.07

CORPORATE STOCK FUNDS

Cash Balance as at December 31, 1916..... \$2,287,680.35

Additions

Authorizations as per resolution of the Board of
Estimate and Apportionment during year 1917..... \$ 248,025
Authorizations for account of codes CFM 9
and CFM 25 during the year 1917..... 1,548,349.35

Total additions, year 1917..... 1,796,374.35

Total cash \$4,084,054.70

Less

Transfers, closing out balances as per resolutions Board of
Estimate and Apportionment year 1917..... 45.85

Net cash available for year 1917..... \$4,084,008.85

Disbursements

Amount (net) of vouchers, registered and transmitted to the
Department of Finance during the year 1917..... 2,131,683.27

Cash Balance as of December 31, 1917..... \$1,952,325.58

Reserves

For contracts	\$1,734,670.97
For open market orders.....	28,683.90

Total reserves as of December 31, 1917..... 1,763,354.87

Unencumbered balance as of December 31, 1917. \$188,970.71

SPECIAL TRUST FUNDS

Cash Balance as of December 31, 1916.....	\$ 32,467.26
Cash receipts from issuance of Permits deposited with the City Chamberlain during the year 1917.....	34,463.76

Total cash available for year 1917..... \$ 66,931.02

Disbursements

Amount (net) of vouchers registered and transmitted to the Department of Finance during the year 1917.....	26,654.45
---	-----------

Cash balance as of December 31, 1917..... \$ 40,276.57

Reserves

For Open Market Orders.....	\$7,291.69
For Refunds (Code S 7 Q).....	1,062.63

Total reserves as of December 31, 1917..... 8,354.32

Unencumbered Balance as of December 31, 1917 \$ 31,922.25

PAYROLL DIVISION.

This division is charged with the preparation of all payrolls of the department or office of the Borough President, covering some 2,000 employees. It records the time reports transmitted to it by the various bureaus. All charges are then figured and the schedule line expenditures recorded. The time is then transcribed on payroll voucher forms and the vouchers forwarded to the Department of Finance. The employees' payrolls are prepared semi-monthly for those on an annual basis and weekly for those on a per diem basis. Communications pertaining to personal service are recorded and filed. A record is kept of all absences and latenesses of per annum employees, which is charged against the time allowance or vacation period of each. Duplicate payroll vouchers are registered, scheduled and filed.

DIVISION OF PURCHASE AND STORAGE OF SUPPLIES.

All supplies, equipment and materials are purchased through this division on requisitions submitted by the directors of the various bureaus, after obtaining estimates on appropriate specifications for said articles from reliable concerns. Open market orders are then issued to the lowest bidders. All vouchers are also prepared for payment in this division.

The following is a statement of the Contract and Open Market Orders issued during the year ended December 31, 1917:

DIVISION OF PURCHASE AND STORAGE OF SUPPLIES.

Month	No. Orders Issued	Appropriation Accounts	Special Revenue Bonds	Corporate Stock	Special and Trust Funds	Total
January	223	\$14,891.71	.....	\$487.50	\$210.00	\$15,589.21
February ...	331	20,392.56	.....	516.83	445.00	21,354.39
March	373	18,724.46	.....	148.38	450.00	19,322.84
April	344	48,172.90	\$330.00	93.75	495.50	49,092.15
May	361	52,546.35	.....	2,418.91	580.00	55,545.26
June	321	41,733.31	.....	2,023.31	751.10	44,507.72
July	237	22,077.80	271.50	1,032.84	335.00	23,717.14
August	238	30,676.99	103.18	236.56	611.50	31,628.23
September ..	218	26,683.83	468.35	6,411.91	1,755.00	35,319.09
October	250	37,375.75	23.00	910.50	597.47	38,906.72
November ..	201	13,444.84	177.04	556.00	1,695.50	15,873.38
December ..	175	14,370.74	2,374.32	4,768.07	513.24	22,026.37
Total....	3,272	\$341,091.24	\$3,747.39	\$19,604.56	\$8,439.31	\$372,882.50

DIVISION OF APPOINTMENTS.

This division prepares for execution the documents necessary to make effective all appointments, resignations and other changes in the personal service and keeps the records of such changes and official history of the individual employees.

The following is a statement showing the appointments, assignments, reassignments, reinstatements, transfers, increases and decreases in salary, changes of title, promotions, suspensions and discontinuance in office through deaths, resignations, dismissals and rescindments of appointment for the year ended December 31, 1917, separate by the classified service, the non-competitive, the exempt and the labor class:

DIVISION OF APPOINTMENTS.

Permanent appointments	77	Changes of title	22
Temporary appointments	43	Promotions	31
Provisional appointments	12	Suspensions (lack of work).....	22
Reassignments	162	Suspensions (lack of funds).....	1
Departmental transfers	63	Discontinued (death)	44
Interdepartmental transfers	26	Discontinued (resigned)	30
Increases in salary	214	Discontinued (dismissed)	4
Decreases in salary	2	Retired	1

DIVISION OF CONTRACTS

This division prepares the advertisements soliciting bids on contract work. It tabulates the bids received and the security deposits submitted therewith and keeps the records of the progress of the work under all contracts.

During the year ended December 31, 1917, there were contracts awarded in the total sum of \$2,210,939.08 as per statement below.

DIVISION OF CONTRACTS

	Number of Awards	Appropriation Accounts	Special Revenue Bonds	Corporate Stock	Total
January	16	\$106,440.00		\$ 59,009.14	\$ 165,449.14
February	7			18,582.80	18,582.80
March	10	71,797.88		68,423.86	140,221.74
April	25	28,573.00		330,189.36	358,762.36
May	18			140,659.82	140,659.82
June	34	16,287.00	\$12,473.00	335,425.27	364,185.27
July	8			209,754.80	209,754.80
August	21	3,396.00		169,162.50	172,558.50
September	16			290,690.81	290,690.81
October	7			42,730.88	42,730.88
November	13			115,441.31	115,441.31
December	20			191,901.65	191,901.65
Totals	195	\$226,493.88	\$12,473.00	\$1,971,972.20	\$2,210,939.08

DIVISION OF MAILING AND FILING.

The nature of the work of this division is described by its title. In extent, during the year ended December 31, 1917, there were about 16,332 pieces of mail received and distributed in the administrative offices of the borough, which, after being properly noted, were returned for filing. The outgoing mail handled consisted of 14,574 letters.

DIVISION OF PERMITS.

ANNUAL REPORT FOR THE YEAR ENDED DECEMBER 31, 1916.

MONEYS RECEIVED FOR ISSUING PERMITS

FOR THE BUREAU OF HIGHWAYS.

	1913	1914	1915	1916
First Quarter	\$ 7,290.45	\$ 6,014.44	\$ 14,345.16	\$13,505.53
Second Quarter	15,636.28	16,521.00	37,491.48	34,524.19
Third Quarter	10,831.70	14,561.99	29,142.19	20,339.84
Fourth Quarter	11,618.25	24,550.95	23,927.00	16,770.59
Total	\$45,376.68	\$61,648.38	\$104,905.83	\$85,140.15

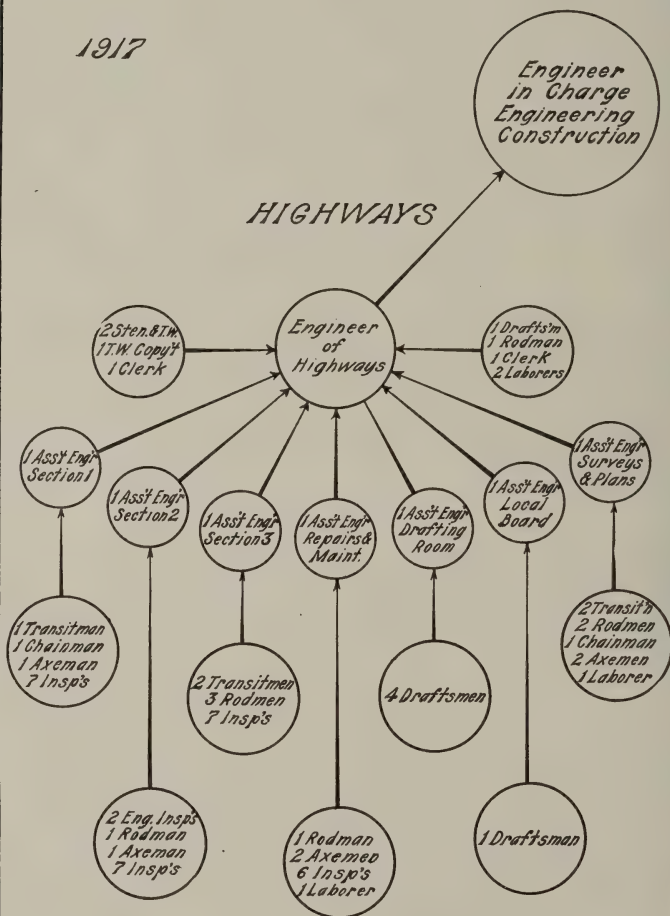
FOR THE BUREAU OF SEWERS

	1913	1914	1915	1916
First Quarter	\$ 3,619.94	\$ 2,315.00	\$ 2,865.00	\$ 3,343.36
Second Quarter	6,642.28	4,599.57	4,920.00	7,771.87
Third Quarter	2,515.00	3,457.25	5,355.86	4,670.51
Fourth Quarter	3,612.60	3,170.00	5,384.12	4,094.98
Total	\$16,389.82	\$13,631.82	\$18,524.98	\$19,880.72

BUREAU OF HIGHWAYS

1917

HIGHWAYS



BUREAU OF HIGHWAYS

The following is a statement showing the forces employed during the year ended December 31, 1917.

Ward Foremen	6
Drivers	6
Foremen	22
Assistant Foremen	22
Carpenters	2
Ship Carpenters	2
Steam Roller Engineers	10
Stone Mason	1
Bricklayer	1
Flagger	1
Foreman of Painters	1
Painters	7
Foreman of Pavers	1
Pavers	23
Rammers	9
Striper	1
Stationary Engineers	2
Asphalt Roller Engineers	2
Asphalt Foremen	4
Asphalt Worwers @ \$3.45	4
Asphalt Workers @ 3.20	2
Asphalt Workers @ 3.00	4
Asphalt Workers @ 2.85	2
Asphalt Workers @ 2.50	4
Laborers @ \$4.00	1
Laborers @ 3.50	16
Laborers @ 3.00	15
Laborers @ 2.50	386
Horses and vehicies	75
Teams and vehicles	67
<hr/>	
Total	695

WORK PERFORMED

Macadamized Streets

Sq. yds. of macadam pavement repaired.....	366,784
Sq. yds. of macadam pavement cleaned.....	1,142,551
Sq. yds. of macadam pavement sanded.....	278,787
Sq. yds. of macadam pavement tarred and oiled.....	2,364,623
Sq. yds. of macadam pavement sprinkled with water.....	292,188
Sq. yds. of macadam pavement finished	407,590
Sq. yds. of dirt wings honed and cleaned	814,634
Lin. ft. of gutters cleaned.....	385,931

Paved Streets

Sq. yds. of granite pavement repaired.....	34,358
Sq. yds. of brick pavement repaired.....	10,800
Sq. yds. of asphalt block pavement repaired.....	3,542
Sq. yds. of wood block pavement repaired.....	1,532
Sq. yds. of slag block pavement repaired.....	3,128
Sq. yds. of sheet asphalt pavement repaired.....	617
Sq. yds. of asphalt concrete pavement repaired.....	469

Sq. yds. of asphalt concrete pavement finished.....	62,592
Sq. ft. of flagstones relaid.....	4,346
Lin. ft. of crosswalks repaired.....	337
Lin. ft. of gutters repaired and built.....	14,871
Lin. ft. of headers set.....	6,706
Lin. ft. of curb reset.....	6,462
Sq. yds. of pavement sanded.....	17,767

Unimproved Streets

Sq. yds. of roadway graded.....	543,033
Sq. yds. of roadway scraped and hoed.....	1,284,310
Sq. yds. of roadway turnpiked.....	2,864,258
Sq. yds. of roadway filled in with sand and ashes.....	95,500
Sq. yds. of dirt sidewalks graded.....	5,630
Sq. yds. of roadway oiled.....	3,018,161
Sq. yds. of roadway sprinkled with water.....	2,279,040
Sq. yds. of crosswalks graded.....	10,355
Lin. ft. of gutters formed and cleaned.....	658,632
Lin. ft. of roadway ploughed.....	17,107

Culverts

Lin. ft. of pipe laid.....	1,712
Lin. ft. of culverts cleaned.....	2,355
Lin. ft. of wooden culverts built and repaired.....	2,680

Catch Basins

No. of catch basins repaired.....	21
No. of catch basins cleaned.....	19

Trees and Weeds

Sq. yds. of weeds cut down and removed.....	56,972
No. of dead and dangerous trees cut and removed.....	6

Snow and Ice

Lin. ft. of gutters cleaned of ice and snow.....	19,700
Lin. ft. of crosswalks cleaned of snow.....	18,084
Sq. yds. of streets cleaned of snow.....	27,668

**BUREAU OF ENGINEERING
CONSTRUCTION**

REPORT OF THE BUREAU OF ENGINEERING CONSTRUCTION, DIVISION OF HIGHWAYS

FOR THE YEAR ENDED DECEMBER 31, 1917

The Highway Division of the Bureau of Engineering Construction supervises the work done under contract for highway improvements and also the restoration of pavements over openings made by contractors for the construction of sewers.

The greater part of the work is done under assessment proceedings. When petitions are presented by property owners asking for highway improvements, reports and recommendations are made to the Local Board having jurisdiction. After the Local Boards have adopted resolutions authorizing the improvements and the urgency has been established to the satisfaction of the Board of Estimate and Apportionment, preliminary authorization is granted. Preliminary surveys are then made and plans and contracts are prepared, and after the Board of Estimate and Apportionment has granted the final authorization for the advertising and awarding of the contract, the work is done under the jurisdiction of this Division. On completion of the work, assessment maps and lists are prepared and forwarded to the Board of Assessors so that the assessment can be levied.

Contracts are also prepared for the work of repaving streets and the work is done under the supervision of this office. Pavements laid by property owners under permit of the Bureau of Highways are also constructed under the direction of this office to see that the work is done in accordance with standard specifications for the particular type of pavement.

During the year contracts for the purchase of materials for the maintenance forces of the Bureau of Highways were prepared by this Division.

The organization of the forces for handling the work is as follows:

An Assistant Engineer with two field parties makes the preliminary surveys and prepares the plans and contracts.

The construction work is supervised by three Assistant Engineers whose sections are as follows:

1. First Ward.
2. Northerly half of the 2nd Ward and 3rd Ward.
3. Southerly half of the 2nd Ward and the 4th and 5th Wards.

The Inspectors of Regulating, Grading and Paving report directly to the Assistant Engineers and send daily reports to the office noting the progress of the work and any unusual conditions occurring as the work progresses.

A very important part of the work of this Division consists of the inspection of the condition and the making of repairs to pavements, concrete curb and cement sidewalk, and the restoration of pavements disturbed by plumbers, public service corporations and sewer and water contractors, under maintenance by contractors. This work is done under the jurisdiction of an Assistant Engineer to whom nine men are detailed for the purpose of inspection.

SUMMARY OF COMPLETED CONTRACTS DURING THE YEAR 1917

44 Contracts for Regulating and Grading Streets were completed at a total cost of	\$176,596.87
31 Contracts for Original Pavements on streets were completed at a total cost of	357,627.80
5 Contracts for Repaving Streets were completed at a total cost of	140,120.34
1 Contract for Repairing Sheet Asphalt Pavement was completed at a total cost of (1916)	19,447.30
1 Contract for Repairing Shell Road was completed at a total cost of	4,079.70
82 Contracts completed at a total cost of	\$697,872.01
41 Assessment Maps were completed and forwarded to the Board of Assessors amounting to	\$425,641.71

MISCELLANEOUS CONTRACTS COMPLETED DURING THE YEAR 1917
Repairs, Shell Road from Thomson Avenue to Jackson Avenue..... \$4,079.70

STREET ASSESSMENT CONTRACTS COMPLETED DURING THE YEAR 1917

Improvement.	St. or Ave.	Limits	Amount
Pave	Fairview Ave.	Madison St. to 25' N. W.....2 Wd.	\$ 1,352.49
Pave	Madison St.	Forest Ave. to B. R. T.....2 Wd.	3,832.82
Pave	Putnam Ave.	Woodward Ave. to Fairview Ave.....2 Wd.	3,067.43
Pave	Columbia Ave.	Queens Boulevard to Laurel Hill Boulevard .....1 Wd.	4,092.04
Pave	Van Dam St.	Diagonal St. to Star Ave.....1 Wd.	43,626.27
Pave	Sherman St.	Broadway to Grand Ave.....1 Wd.	15,175.15
Regulate, Grade, etc.		Woodside Ave. to Roosevelt Ave.....2 Wd.	9,659.71
Reg. grade, etc.	Woodbine St.	Prospect St. to Fresh Pond Rd.....1 Wd.	1,645.07
Pave	Cypress Ave.	Cody St. to Cooper Ave.....2 Wd.	9,469.67
Reg. grade, etc.	Jerome Ave.	Boyd Ave. to Greenwood Ave..4 Wd.	3,542.01
Reg. grade, etc....	Creek St.	Grand St. to Flushing Ave....2 Wd.	431.22
Reg. grade, etc.	Parsons Ave.	etc. Sandford Ave to Gerold Ave..3 Wd.	1,946.15
Regulate, grade, etc.			
.....	Lambertville Ave.	Sutphin Road to Spangler St...4 Wd.	47,540.74
Reg. grade, etc.	Liberty Ave.	117th St. to Lefferts Ave.....4 Wd.	1,144.37
Pave	Orchard St.	Jackson Ave. to L. I. R. R.....1 Wd.	6,629.17
Pave	Hunterspoint Ave.	East Ave. to Viaduct.....1 Wd.	15,821.34
Regulate & grade..	16th Ave.	Grand Ave to Wilson Ave....1 Wd.	5,339.56
Pave	118th St.	Jamaica Ave to Liberty Ave....4 Wd.	49,731.60
Flag	Greene Ave.	Forest Ave. to B. B. Line.....2 Wd.	1,593.50
Flag	Hillside Ave.	No. Curtis St. to No. Villa St..4 Wd.	870.88
Pave	Toledo St.	Corona Ave to Justice St.....2 Wd.	19,508.85
Reg. grade, etc....	40th St.	Jackson Ave. to Hayes Ave....2 Wd.	4,524.32
Reg. grade, etc....	49th St.	Jackson Ave. to Astoria Ave....2 Wd.	5,315.45
Reg. grade, etc....	Custer St.	Bayreuth Ave. to Sanford Ave..3 Wd.	2,197.49
Pave	4th St.	East Ave. to Van Alst Ave....1 Wd.	7,993.98
Regulate, grade, etc.			
.....	Clermont Ave.	Grand St. to Halle Ave.....2 Wd.	6,186.91
Reg. grade, etc....	Yale Ave.	Jamaica Ave. to Cannonbury Rd.4 Wd.	1,806.29
Crosswalks...on	Potter Ave.	Across Goodrich St.....1 Wd.	138.69
Grading ...	Liberty Ave. etc.	108th St to 112th St.....4 Wd.	940.55
Reg. grade, etc....	Lewis Ave.	Toledo St. to Hanover Ave....2 Wd.	435.90
Pave	Linden St.	St. Nicholas Ave. to Kings Co. Line.....2 Wd.	1,743.39
Curb.....	Beach 130th St.	Bayside Drive to Newport Ave..5 Wd.	1,805.75
Reg. grade, etc....	87th Road	80th St. to 85th St.....4 Wd.	1,426.54
Pave	Hancock St. etc.	Wyckoff Ave. to Cypress Ave..2 Wd.	12,789.78
Regulate & grade...	Hart St.	Onderdonk Ave. to Woodward Ave.....2 Wd.	1,444.23
Pave	14th St.	Graham Ave. to Broadway....1 Wd.	9,024.68
Regulate & grade..	Grove St.	Grandview Ave. to Forest Ave..2 Wd.	1,938.82
Reg. grade, etc	Queens Blvd.	Hill St. to Harold Ave.....2 Wd.	1,809.79
Reg. grade, etc....	40th St.	Coe Pl. to 303' S. E.....2 Wd.	1,436.50
Reg. Grade, etc....	86th Ave.	109th to 110th St.....4 Wd.	214.95
Pave	Ditmars Ave.	Banks Ave. to Schurz Ave....2 Wd.	26,690.57

Reg. grade, etc.....4th St. Jackson Ave. to Polk Ave.....	2 Wd.	4,330.80
Pave.....Buchman Ave. etc. Van Cortlandt Ave to		
	Catalpa Ave.....	2 Wd.
		11,818.01
Reg. grade, etc. Van Alst Ave. 4th St. to viaduct over L. I. R. R.	1 Wd.	998.68
Pave .....DeKalb Ave. Onderdonk Ave. to Seneca Ave.....	2 Wd.	7,460.19
Reg. grade, etc.....38th St. Jackson Ave to Burnside Ave..	2 Wd.	741.30
Reg. grade, etc. Bowne Ave.		
	etc. Franconia Ave. to 505' N. W....	3 Wd.
		1,270.48
Reg. grade, etc. Sandford Ave. 149 Place to Murray St.....	3 Wd.	394.08
Pave .....Ithaca St. Baxter Ave. to Britton Ave....	2 Wd.	3,969.08
Pave .....Governor Place Harris Ave. to 14th St.....	1 Wd.	4,593.39
Pave ....Van Cortlandt Ave. Myrtle Ave. to Anthon Ave....	2 Wd.	3,920.12
Pave .....Woodbine St. Myrtle Ave. to St. Nicholas Ave.	2 Wd.	4,201.08
Reg. grade, etc....Purvis St. Jackson Ave. to Thomson Ave..	1 Wd.	2,476.74
Reg. grade, etc.....Ely Ave. N. Jane St. to Wilbur Ave....	1 Wd.	2,187.69
Pave .....Hoyt Ave. 2nd Ave. to Flushing Ave.....	1 Wd.	3,700.60
Pave .....88th St. Jamaica Ave. to Park Lane So.	4 Wd.	7,374.44
Pave .....Hamilton St. Payntar Ave. to Webster Ave..	1 Wd.	10,580.59
Pave .....Wyckoff Ave. Halsey St. to Cooper Ave.....	2 Wd.	18,635.43
Reg. grade and flag		
	.....Beach 94th St. Boulevard to 800' S.....	5 Wd.
		174.22
Pave .....5th Ave. Broadway to Jamaica Ave.....	1 Wd.	8,554.50
Reg. grade, curb, flag		
	.....51st St. Ave.....	2 Wd.
		7,194.75
Pave .....6th Ave Flushing to Grand Ave.....	1 Wd.	18,308.46
Pave.....Van Alst Ave. Jackson Ave. to 4th St.....	1 Wd.	9,231.11
Reg. grade, curb & flag		
	.....McPherson St. Cornelia St. to Catalpa Ave....	2 Wd.
		4,186.65
Pave .....8th Ave. Washington Ave to Pierce Ave.	1 Wd.	7,154.73
Reg. grade & flag		
	.....95th Ave. etc 96th to 97th St. etc.....	4 Wd.
		687.52
Reg. grade, curb & flag		
	.....Armand Place Cypress Ave. to 385' N. E....	2 Wd.
		1,738.74
Reg. grade, curb & flag		
	.....Cannonbury Road Yale Ave to Harvard Ave....	4 Wd.
		1,292.89
Reg. grade & flag Hatch Ave. Atlantic Ave to Liberty Ave....	4 Wd.	5,561.73
Reg. & grade....Madison St. Prospect to Fresh Pond Rd....	2 Wd.	11,409.78
Reg. grade, curb, flag, etc.		
	.....Kingsland Ave. Luydig Pl. to 51st St.....	2 Wd.
		18,376.56
Reg. grade & flag...78th St. Jamaica Ave. to Rockaway		
	Boulevard.....	4 Wd.
		4,692.61
Reg. grade & flag.....5th St. Stryker Ave. to Woodside Ave..	1 Wd.	1,758.12
Pave .....Payntar Ave. Jackson Ave. to Academy St.		
	.....	1 Wd.
		7,576.84
Reg. grade, curb & flag		
	Myrtle Ave. to Cypress Hills	
	.....Tesla Place Cemetery.....	2 Wd.
		1,788.14
75 Contracts completed		\$534,224.67

REPAVING STREETS CONTRACTS COMPLETED DURING THE YEAR 1917

Improvement	St. or Ave.	Limits	Amount
Repave	Webster Ave.	Vernon Ave to East River....	1 Wd. \$ 11,626.63
Repave	Nott Ave.	Hancock St. to Van Alst Ave....	1 Wd. 11,025.66
Repave	10th St.	7th Ave. to Avenue C.....	3 Wd.

Repave	College Ave. Ave. C to North Boulevard....	3 Wd.	35,590.23
Repave	North Boulevard College Ave. to 13th St.....	3 Wd.	
Repave	Boulevard Park Ave. to Remsen Ave.....	5 Wd.	46,674.33
Repave	Grand Ave. 2nd Ave. to Steinway Ave....	1 Wd.	
Repave	7th St. Vernon Ave. to East Ave.....	1 Wd.	35,203.49
Repave	Radde St. Henry St. to So. Jane St.....	1 Wd.	

5 Contracts completed, total\$140,120.34

MISCELLANEOUS CONTRACTS COMPLETED DURING THE YEAR 1917.

Improvement	St. or Ave.	Limits	Amount
Repair	Shell Road	Thomson Ave. to Jackson Ave..	.2 Wd. \$ 4,079.70

1 Contract completed\$4,079.70

PRIVATE CONTRACTS

COMPLETED DURING THE YEAR 1917.

Street or Avenue	Limits	Width	Length	Sq. Yds.	Improvement.
Schley St.	Edsall Ave. to Central Ave.	30	490	1633	Sheet Asph.
23rd Street	Polk Ave. to Fillmore Ave...	30	702	2340	Sheet Asph.
Ely Ave.	285' S. of Wilbur Ave. and 153' N. of No. Jane St..	335.8 lin. ft. Cement Curb 1714 sq. ft. Cement Flag			

ASSESSMENT MAPS FORWARDED TO BOARD OF ASSESSORS DURING THE YEAR 1917.

Location	Limits		Amount
Harvard Ave. W.	Fulton St. to Hillside Ave.	4 Wd.	\$ 1,012.43
John Street	Metropolitan Ave. to Bleecker St.	2 Wd.	2,650.19
Lefferts Ave	Liberty Ave. to Rockaway Boulevard	4 Wd.	19,981.36
Anable Street	Van Dam St. to New Calvary Cemetery	2 Wd.	24,880.07
Putnam Ave.	Kings Co. Line to Wyckoff Ave.	2 Wd.	1,445.06
Hancock St.	Harris Ave. to Nott Ave.	1 Wd.	9,331.86
4th Street	Jackson Ave. to Polk Ave.	2 Wd.	1,281.50
Graham Ave.	17th Ave. to Jackson Ave.	1 Wd.	480.28
4th Ave.	Jackson Ave. to Washington Ave. ...	1 Wd.	12,221.63
Banks Ave., etc. ...	Ditmars Ave. & Couch Place, etc.	2 Wd.	10,508.40
Sherman St.	Broadway to Grand Ave.	1 Wd.	16,178.11
Bleecker St.	Forest Ave. to Fresh Pond Road	2 Wd.	6,038.79
Sedgwick St.	Hughes St. to Catalpa Ave.	2 Wd.	3,318.78
Columbia Ave.	Queens Boulevard to Laurel Hill Boule- vard	1 Wd.	4,359.26
Skillman Ave.	Dickson St. to 70' W. of Van Pelt St...	1 Wd.	6,463.20
South Street	New York Ave. to Rockaway Tpk.	4 Wd.	6,049.02
Meadow St.	Diagonal St. to Thomson Ave.....	1 Wd.	8,836.37
Van Dam St.	Diagonal St. to Greenpoint Ave.	1 Wd.	45,814.18
Cypress Ave.	Cody Street to Cooper Ave.....	2 Wd.	10,150.62
9th Avenue	Broadway and Jamaica Ave.	1 Wd.	7,340.44
Putnam Ave.	Woodward Ave. & Fairview Ave.....	2 Wd.	3,365.98
Hallett St., E. S. ...	Hoyt Ave. to Woolsey Ave.	1 Wd.	2,006.40
48th Street	Jackson Ave. to Polk Ave.	2 Wd.	2,430.26
Beekman St.	Jackson Ave. to 403' N. of State St....	3 Wd.	1,560.05
47th St.	Hayes Ave. to Astoria Ave.	2 Wd.	8,713.94
Moore St.	Queens Boulevard to Nelson Ave.	1 Wd.	2,247.42
Van Alst Ave.	Jackson Ave. to L. I. R. R. Viaduct ...	1 Wd.	3,429.50

Jerome Ave.	Boyd Avenue to Greenwood Ave.	4 Wd.	21,117.41
Jerome Ave.	Hatch Ave. to Greenwood Ave.	4 Wd.	38,647.22
Creek St.	Grand Street to Flushing Avenue	2 Wd.	590.47
Fairview Ave.	Woodbine St. to Madison Street	2 Wd.	2,683.10
Fairview Ave.	Putnam Avenue to Madison Street ..	2 Wd.	1,494.31
Madison St.	Forest Avenue to B. R. T.	2 Wd.	4,136.44
Worthington St. ...	Woodside Ave. to Roosevelt Ave.	2 Wd.	10,509.10
Liberty Ave.	117th Street to Lefferts Avenue.	4 Wd.	
Lefferts Ave.	Liberty Ave. to 180' So. etc.	4 Wd.	1,367.62
Orchard St.	Jackson Ave. to L. I. R. R.	1 Wd.	7,422.88
Woodbine St.	Prospect Ave. to Fresh Pond Road	2 Wd.	1,860.31
Hunterspoint Ave. .	East Avenue to L. I. R. R.	1 Wd.	17,455.71
Columbia Ave.	Queens Boulevard to Laurel Hill Boulevard	2 Wd.	4,490.51
118th (Church) St.	Jamaica Ave. to Liberty Ave.	4 Wd.	53,704.85
Burnside Ave.	47th Street to 50th Street	2 Wd.	9,929.78
Toledo Street	Corona Avenue to Justice Street	2 Wd.	21,321.26
Clermont Ave.	Grand Street to Halle Avenue	2 Wd.	6,825.64

41 Maps Transmitted to Board of Assessors. \$425,641.71

REPAIRS MADE DURING 1917 UNDER THE SUPERVISION OF ENGINEERING AND CONSTRUCTION—HIGHWAYS, ON ACCOUNT OF WEAR AND TEAR AND PLUMBERS, CORPORATION AND SEWER OPENINGS

PAVEMENTS OUT OF MAINTENANCE

Sheet Asphalt repaired outside of R. R. Area	9,075 Sq. Yds.	
Sheet Asphalt repaired inside of R. R. Area.	2,794 Sq. Yds.	
		11,869 Sq. Yds.
Sheet Asphalt Plumbers and Corporation Open- ing restored	714 Sq. Yds.	714 Sq. Yds.
Macadam restored over Water and Sewer Trenches	8,834 Sq. Yds.	
Wood Block restored over Water and Sewer Trenches	407 Sq. Yds.	
Granite Block restored over Water and Sewer Trenches	1,881 Sq. Yds.	
Tarvia restored over Water and Sewer Trenches	2,812 Sq. Yds.	
		13,934 Sq. Yds.
		26,517 Sq. Yds.

PAVEMENTS UNDER MAINTENANCE

Asphalt Concrete repaired.....	60,390 Sq. Yds.	
Asphalt Block repaired	16,051 Sq. Yds.	
Wood Block repaired	386 Sq. Yds.	
Tarvia repaired	8 Sq. Yds.	
		76,835 Sq. Yds.

PLUMBERS AND CORPORATION OPENINGS RESTORED

Asphalt Block	750 Sq. Yds.	
Sheet Asphalt	269 Sq. Yds.	
Asphalt Concrete	681 Sq. Yds.	
Granite Block	80 Sq. Yds.	
Wood Block	163 Sq. Yds.	
		1,943 Sq. Yds.

SEWER TRENCHES REPAIRED IN PAVEMENTS UNDER MAINTENANCE.

Asphalt Concrete	7,335 Sq. Yds.	7,335 Sq. Yds.
		<hr/> 86,113 Sq. Yds.

RAILROAD AREA IN STREETS UNDER MAINTENANCE

Sheet Asphalt	2,816 Sq. Yds.	
Asphalt Block	3,384 Sq. Yds.	
Wood Block	255 Sq. Yds.	
Asphalt Concrete	4,485 Sq. Yds.	
		<hr/> 10,940 Sq. Yds.

TOTAL REPAIRS

26,517 Sq. Yds.

86,113 Sq. Yds.

10,940 Sq. Yds.

123,570 Sq. Yds.

INSPECTED FOR FINAL OR INTERMEDIATE PAYMENTS, PAVEMENTS UNDER MAINTENANCE

Granite	Concrete Curb Inspected
Sheet Asphalt	150,100 Sq. Yds. 24,300 Lin. Ft.
Asphalt Block	233,500 Sq. Yds. Concrete Walk Inspected
Asphalt Concrete	868,000 Sq. Yds. 155,400 Sq. Ft.
Wood Block	65,000 Sq. Yds.

1,316,600 Sq. Yds.

STATEMENT OF WORK DONE BY THIS DIVISION DURING THE YEAR ENDED DECEMBER 31, 1917

110,576.9	Cu. Yds. of Earth Excavation.
798	Cu. Yds. of Rock Excavation.
48,016.7	Cu. Yds. of Embankment, furnished and placed
12,208.2	Lin. Ft. of New Bluestone Curb, set.
5,946.7	Lin. Ft. of Old Bluestone Curb reset.
49,686.46	Lin. Ft. of New Concrete Curb set.
2,195.6	Lin. Ft. of Old Concrete curb reset.
10,414.95	Sq. Ft. New Bluestone Flag laid.
308,130.6	Sq. Ft. New Cement Sidewalk laid.
19,922.88	Sq. Ft. Old Bluestone Flag relaid.
6,109.77	Sq. Ft. New Crosswalks laid.
53	Sq. Ft. Old Crosswalks relaid.
23,344.01	Cu. Yds. of Concrete Foundation laid.
39,181.1	Sq. Yds. Asphaltic Concrete Pavement laid.
6,724	Sq. Yds. Wood Block Pavement, laid.
1,244.46	Sq. Yds. Asphalt Block Pavement laid.
29,483.86	Sq. Yds. Improved Granite Block Pavement laid.
66,411.1	Sq. Yds. Sheet Asphalt Pavement laid.
2,953	Sq. Yds. Vitrified Block Gutters laid.
18,053.63	Sq. Yds. Old Granite Block Pavement relaid.
5,531.50	Sq. Yds. Stone Gutters furnished and laid.
751.7	Sq. Yds. Stone Gutters relaid.
117	Lin. Ft. of 10" Vitrified Pipe in place for drains.
138	Lin. Ft. Cast Iron Pipe in place for drains.
15	New Catch Basins built.

25	Catch Basins rebuilt.
8	Catch Basins adjusted.
4	New Sewer Manholes.
4	Sewer Manholes rebuilt.
1	Basin inlet, adjusted.
2	Basin Inlets completed.
1	Basin remodeled.
11,164	Sq. Yds. of Bituminous Macadam Pavement laid.
2	Seepage Basins.
138	Linear feet of 12" Cast Iron Pipe.
2	1-8" Bends Vitrified Pipe.
71	Linear feet of bluestone header laid in concrete.
42	Square Yards of Granite Block laid.
119	Square Yards of Rip Rap in place.
1,060	Linear Feet of Pile in place.
527.4	Lin. Ft. of 12" Vitrified Pipe in place.
788	Lbs. of Steel placed for reinforcing.
6	Cu. Yds. of Gravel in place.
72	Linear feet of 18" Cast Iron Pipe, in place.
24	Linear feet of 24" Cast Iron Pipe in place.
1	Standard Inlet.
15	Cubic Yards of Broken Stone Foundation.
3,665.	Sq. Yds. of Asphaltic Concrete Pavement repaired.
6	Cu. Yds. of Broken Stone in crosswalks.
7,450	Sq. Yds. of Sheet Asphalt Pavement repaired outside of Railroad area.
1,500	Sq. Yds. of sheet Asphalt Pavement repaired within Railroad area.
4,000	Sq. Yds. of Surplus excavation placed.
500	Sq. Yds. of Old Stone Block, taken up and removed.
87	Bids Opened for Street Improvement contracts, amounting to \$694,071.02.
1	Bid Opened for Asphalt Repairs Amounting to \$19,790.00.

REPORT SHOWING THE AMOUNT OF PAVEMENTS LAID IN THE BOROUGH OF QUEENS
DURING THE YEAR 1917, AND THE AMOUNT IN USE ON JANUARY 1, 1918

Kind of Pavement.	New Pavement Laid during 1917		Repaved during year 1917		Total amount in use January 1, 1918	
	Miles.	Sq. Yds.	Miles.	Sq. Yds.	Miles.	Sq. Yds.
Asphaltic Concrete			6.47	74,186	108.32	1,165,344
Asphalt Sheet	3.26	66,852	0.86	18,315	37.68	642,111
Asphalt Block	0.92	17,620			24.49	497,018
Wood Block	0.17	4,862			9.54	175,884
Brick					9.38	160,829
Iron Slag					0.22	2,200
Improved Granite						
Block	1.27	16,946	1.46	19,203	15.98	258,536
Granite Block	0.07	1,113			24.23	406,409
Belgian Block					2.92	54,656
Bituminous Macadam	0.86	11,164	6.42	79,168	56.44	663,673
Water Bound Macadam	0.38	4,000			185.51	2,263,855
Gravel					1.12	11,827
Total	6.93	122,557	15.24	190,872	475.83	6,302,342

Dirt Roads Approximately	600.00
Grand Total	1,075.83

The above table includes the following amount of paving done by Departmental Labor:

	Miles	Sq. Yds.
Asphaltic Concrete	5.27	55,660
Bituminous Macadam	6.42	79,168
Water Bound Macadam	0.38	4,000
Total	12.97	138,828

LIST OF CONTRACTS PREPARED FOR FURNISHING AND DELIVERING MATERIALS FOR USE IN THE BUREAU OF HIGHWAYS DURING THE YEAR 1917

Furnishing and Delivering	Amt. of Bid
3,000 Asphalt Paving Blocks, as directed	\$ 1,725.00
80,000 Gallons of Bituminous Road Surfacing Material, spread upon the road	7,520.00
30,000 Cubic Yards of Broken Stone and Screenings of Trap Rock..	68,700.00
5,000 Cubic Yards of Sand Grit or Broken Stone Chips.....	7,200.00
150,000 Gallons of Asphaltic Oil spread upon the roads.....	11,250.00
80,000 Gallons of Liquid Fuel Oil, as directed	8,200.00
30,000 Wood Blocks, as directed	868.50
1,080 Linear Feet of 12" Cast Iron Pipe in 1, 2, 3, 4, 5 Wards....	1,998.00
1,500 Tons of Asphaltic Cement	30,570.00
600,000 Gallons of Light Road Oil, in Tank Cars.....	34,080.00
450 Net Tons of Lime Stone or other suitable inorganic dust....	3,028.50
100 Net Tons of Hydrated Lime, to the Newtown Disposal Plant.	1,055.00
270 Net Tons of Lime to the Jamaica and Far Rockaway Disposal Plant	3,172.50
14,000 Cubic Yards of Highway and Asphalt Sand as directed.....	16,100.00

14 Bids opened for Furnishing and Delivering Materials.....\$195,467.50

LIST OF CONTRACTS PREPARED FOR REPAIRS TO SHEET ASPHALT

Repairs to Sheet Asphalt Pavement in 1, 2, 3, 4 Wards..... \$19,790.00

LIST OF CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS FOR WHICH BIDS WERE OPENED DURING THE YEAR 1917

Impvt.	Location	Limits	Ward	Amt. of Bid
RGCF&Xw...	Lewis Av. S.S.	Toledo St. to Hanover Av.....	2	\$419.02
RG&F.....	87th Rd.	80th St. to 85th St.....	4	
RG&F.....	90th Rd.	80th St. to 84th St.....	4	1,567.28
R&G.....	Madison St.	Prospect Ave. to Fresh Pond Rd....	2	11,180.10
Pave.....	Linden St.	St. Nicholas Av. to King C. L.....	2	1,660.60
Pave.....	14th Av.	Graham Av. to Broadway.....	1	9,241.60
Completing an abandoned contract for				
RG&F.....	40th St.	Jackson Av. to Hayes Av.....	2	4,696.00
Pave.....	Governor Pl.	Harris Av. to 14th St.....	1	4,161.70
RG&F.....	86th Av.	109th St. to 110th St.....	4	220.10
C&F.....	Ely Av.	Wilbur Av. to Payntar Av.....	1	
Recurb.....	Payntar Av.	S. E. Corner of Prospect St.....	1	1,868.50
Recurb.....	Webster Av. and Vernon Av.,	S. E. Corner.....	1	
RGCFXw.....	Queens Blvd.	Diagonal St. to Gosman Av.....	1	38,647.00

RGCFXw.....	Bragaw St.	Queens Blvd. to Line 304' N.....	1	
RG&F.....	Queens Blvd.	Hill St. to Harold Av.....	1	1,965.50
Completing an abandoned contract for				
RGC&F.....	Hart St., E. S.	Onderdonk Av. to Woodward Av...	2	1,524.00
Completing an abandoned contract for				
C&F.....	Thomson Av.	Jackson Av. to Viaduct over		
		L. I. R. R.	1	2,004.00
Curb.....	Beach 130th St.	Bayside Av. to Newport Av.....	5	1,827.00
RGC&F.....	4th St., E. S.	Jackson Av. to Polk Av.....	2	4,599.80
RGC&F.....	Woodbine St.	Forest Av. to Prospect Av.....	2	673.00
Completing an abandoned contract for				
RG&F.....	38th St., W. S.	Jackson Av. to Burnside Av.....	2	786.50
Pave.....	Review Av.	Howard St. to Laurel Hill Blvd...1-2	33,406.00	
RGCF&Xw.....	Grove St.	Grandview Av. to Forest Av.....	2	2,240.00
Pave.....	6th Av.	Flushing Av. to Grand Av.....	1	17,828.60
Pave.....	Crescent St.	So. Jane St. to 13th St.....	1	28,415.25
RGC&F.....	Purves St.	Jackson Av. to Thomson Av.....	1	2,667.50
RGC&F.....	12th Av.	Wilson Av. to Vandeventer Av....	1	6,428.00
Pave.....	Wyckoff Av.	Halsey St. to Cooper Av.....	2	20,082.50
RGCF&Cw...	Kingsland Av.	Luydig Pl. to 51st St.....	2	20,507.55
RGCF&Cw...	Fairview Av.	Stanhope St. to Greene Av.....	2	2,913.00
RGCF&Cw...	McPherson St.	Cornelia St. to Catalpa Av.....	2	3,975.05
RGCF&Cw...	40th St.	Coe Pl. to Line 303' S. E.	2	1,407.00
Pave.....	Van Cortlandt Av.	Myrtle Av. to Anthon Av.	2	4,035.00
RG&F.....	78th St., E. S.	Jamaica Av. to Rockaway Blvd....	4	
RG&F.....	78th St., W. S.	88th St. to Rockaway Blvd.....	4	5,080.00
Pave.....	Van Alst Av.	Jackson Av. to 4th St.....	1	9,434.30
RG&F.....	Beach 94th St.	Blvd. to Line 800' S.....	5	166.60
Repave.....	5th Av.	18th St. to 21st St.....	3	
Repave.....	6th Av.	10th St. to 11th St.....	3	
Repave.....	7th Av.	16th St. to 18th St.....	3	
Repave.....	8th Av.	14th St. to 15th St.....	3	60,907.50
Repave.....	10th St.	Avenue C to East River.....	3	
Repave.....	13th St.	Avenue C to Northern Blvd.....	3	
Repave.....	Thomson Av.	Jackson Av. to Viaduct over		
		L. I. R. R.	1	28,937.50
Pave.....	Payntar Av.	Jackson Av. to Academy St.....	1	7,652.40
Pave.....	Woodbine St.	Myrtle Av. to St. Nicholas Av....	2	4,603.00
Pave.....	Hamilton St.	Payntar Av. to Webster Av.....	1	10,602.50
Pave.....	5th Av.	Broadway to Jamaica Av.....	1	8,556.25
Pave.....	8th Av.	Washington Av. to Pierce Av....	1	7,377.00
Repave.....	Grand Av.	2nd Av. to Steinway Av.....	1	
Repave.....	7th St.	Vernon Av. to East Av.....	1	35,529.00
Repave.....	Radde St.	Henry St. to So. Jane St.....	1	
RGC&F.....	Armand Pl.	Cypress Av. to 385' N. E.....	2	1,839.50
RG&F.....	11th Av.	Broadway to a Line 400' N.....	1	220.00
RG&F.....	Bowne Av.	Franconia Av. to Line 505' N. W... 3		
RG&F.....	Franconia Av.	Bowne Av. to Smart Av.....	3	1,486.00
RG&F...	Sanford Av., S. S.	149th Pl. to Murray St.....	3	390.70
RG&F.....	Ely Av.	N. Jane St. to Wilbur Av.....	1	2,187.69
RG&F.....	Hatch Av.	Atlantic Av. to Liberty Av.....	4	6,390.00

RG&F.....Medina Pl.	Parcell St. to Corona Av.....	2	1,000.00
RGC&Xw.....Yale Av.	Jamaica Av. to Hillside Av.....	4	5,120.00
RGC&F.....Canonbury Rd.	Yale Av. to Harvard Av.....	4	1,358.75
RGC&F.....51st St.	Roosevelt Av. to Kingsland Av....	2	8,248.40
Pave.....Ithaca St.	Baxter Av. to Britton Av.....	2	4,013.10
RG&F...Garrison Av., E. S.	Flushing Av. to 250' N.....	2	706.50
R&G.....Nott Av.	Van Dam St. to Hulst St.....	1	3,000.00
RGC&F.....Tesla Pl.	Myrtle Av. to Cypress Hills Cem... 2		1,819.00
Pave.....91st Av.	102nd St. to 98th St.....	4	7,710.50
Repave.....Jamaica Av.	Van Wyck Av. to B. B. Line.....	4	93,783.00
Pave.....Hughes St.	Fremont St. to Sedgwick St.....	2	
Pave.....Hughes St.	Fresh Pond Rd. to Sedgwick St....	2	10,474.80
Pave.....Hancock St.	Webster Av. to Pierce Av.....	1	11,533.55
Sidewalk.....Skillman Av.	Dickson St. to 75' W. of Van Pelt..	1	7,147.75
R&G.....Rawson St.	Hunterspoint Av. to Thomson Av..	1	4,240.05
RG&F.....46th St.	Astoria Av. to Jackson Av.....	2	4,855.50
RG&F.....4th St., E. S.	Polk Av. to Stryker Av.....	2	1,182.50
RG&C.....Newtown Rd.	Grand Av. to 11th Av.....	1	544.05
RG&F...Jamaica Av., S. S.	Lefferts Av. to Van Wyck Av.....	4	2,735.00
RG&F.....Barton Pl.	Wentworth Av. to Boerum Av....	3	242.50
RG&F...Palmetto St., S. E.	Onderdonk Av. to Woodward Av..	2	162.00
RG&F.....90th Av.	102nd St. to Line 150' East.....	4	235.00
RGC&F.....Weirfield St.	Wyckoff Av. to Evergreen Branch		
	L. I. R. R.	2	832.90
Sidewalk.....8th St., S. S.	East Av. to Jackson Av.....	1	289.25
RG&F..California Av., N. S.	Parsons Av. to Percy St.....	3	
RG&F..California Av., N. S.	Percy St. to Zeigler Av.....	3	1,827.00
RG&F.....Douglaston Av.	From pt. 100' N. of Broadway to pt.		
	50' N. of Pine St.....	3	1,440.00
R&F.....Lambertville Av.	Belleville St. to Spangler St.....		
R&F.....Spangler St.	Lambertville Av. to Sharon Pl....	4	1,909.00
RG&F.....5th St.	Stryker Av. to Woodside Av.....	2	1,853.35
Pave.....Glasser St.	Sandol St. to Cypress Hill Rd.....	2	11,817.50
Pave.....Sandol St.	Millwood Av. and Myrtle Av.....	2	5,537.50
R&G.....Hill St.	Hunterspoint Av. to Thomson Av..	1	10,788.57
RGC&F.....Forest Av.	Metropolitan Av. to Palmetto St... 2		1,892.50
Pave.....80th St.	Jamaica Av. to 88th Av.....	4	3,645.00
RGC&F..Jamaica Av., N. S.	Lefferts Av. to Metropolitan Av... 4		3,837.50
Pave.....Stephen St.	Seneca Av. to Forest Av.....	2	5,042.50
Pave.....Beach 117th St.	Ocean Parkway to Washington Av..	5	17,604.25
RGC&F.....Decatur St.	Cypress Av. to Myrtle Av.....	2	8,130.00
RGC&F.....Tesla Pl.	Copeland Av. to Central Av.....	2	3,527.50
RGC&F.....4th Av., E. S.	Broadway to Jamaica Av.....	1	1,862.75
RGC&F.....Jamaica Av.	Van Wyck Av. to Cliffside Av....	4	10,575.00

85 Bids Opened\$684,831.11

SUMMARY

Of Contracts prepared for which Bids were opened during the year ending
December 31, 1917.

No. of Bids	Amount	Total
53 For regulating, grading, curbing, flagging and crosswalks	\$221,238.71	

23	For Paving	244,435.40
4	For Repaving	219,157.00
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85	Bids Opened for Public Improvement.....	\$684,831.11
14	Bids Opened for Furnishing and Delivering Material	195,467.50
1	Bid Opened for Repairs to Sheet Asphalt Pavement	19,790.00
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100		\$900,088.61

The following is a statement of the work performed by the Division of Engineering Construction, Sewers, for the year ended December 31, 1917:

There have been constructed:

3,289.47	Lineal Feet 24" R. C. Sewer, Precast Type B.....	\$17,890.64
1,446	Lineal Feet 7' 0" R. C. Sewer, Precast Type B.....	43,918.00
970	Lineal Feet 6' 0" R. C. Sewer, Precast Type B.....	13,483.00
520	Lineal Feet 5' 6" R. C. Sewer, Precast Type B.....	7,176.00
680	Lineal Feet 5' 0" R. C. Sewer, Precast Type B.....	8,840.00
154	Lineal Feet 4' 0" R. C. Sewer, Precast Type B.....	2,310.00
872	Lineal Feet 3' 9" R. C. Sewer, Precast Type B.....	11,191.60
553.10	Lineal Feet 3' 6" R. C. Sewer, Precast Type B.....	6,303.90
739	Lineal Feet 3' 3" R. C. Sewer, Precast Type B.....	8,843.60
2,931.78	Lineal Feet 3' 0" R. C. Sewer, Precast Type B.....	26,987.52
691.57	Lineal Feet 2' 9" R. C. Sewer, Precast Type B.....	7,563.77
3,040.86	Lineal Feet 2' 6" R. C. Sewer, Precast Type B.....	25,868.27
1,111	Lineal Feet 10'x8' 3" R. C. Sewer	24,331.00
971	Lineal Feet 9'x8' 3" R. C. Sewer	20,886.21
838.5	Lineal Feet 8' 0"x5' 10" R. C. Sewer	9,779.70
612.2	Lineal Feet 7' 6"x7' 0" R. C. Sewer	16,948.14
1,188	Lineal Feet 7' 0" R. C. Sewer	51,813.00
251.20	Lineal Feet 6' 6" R. C. Sewer	7,536.00
6.70	Lineal Feet 6' 0" R. C. Sewer	73.70
570.35	Lineal Feet 5' 9" R. C. Sewer	7,414.55
178	Lineal Feet 5' 6" R. C. Sewer on crib	2,496.20
875.7	Lineal Feet 5' 6" R. C. Sewer on piles	14,424.60
52.47	Lineal Feet 5' 6" R. C. Sewer	1,094.70
74	Lineal Feet 5' 3" R. C. Sewer	1,443.00
21.49	Lineal Feet 5' 0" R. C. Sewer	267.62
419	Lineal Feet 4' 9" R. C. Sewer	9,410.00
585	Lineal Feet 4' 6" R. C. Sewer	5,089.50
391.7	Lineal Feet 4' 3" R. C. Sewer	3,672.99
1,166.97	Lineal Feet 4' 0" R. C. Sewer	13,071.20
93.8	Lineal Feet 3' 9" R. C. Sewer	
205	Lineal Feet 3' 9" R. C. Sewer, inc. Spurs, etc.....	3,280.00
50	Lineal Feet 3' 6" R. C. Sewer, Spec. Sec., inc. Sheet Steel Piling	1,425.00
215	Lineal Feet 3' 6" R. C. Sewer	1,935.00
369.20	Lineal Feet 3' 3" R. C. Sewer	
465	Lineal Feet 2' 9" R. C. Sewer	3,255.00
1,650.9	Lineal Feet 3' 9" Plain Concrete Sewer	15,522.72
440	Lineal Feet 3' 6" Plain Concrete Sewer, inc. underpinning	
	D. I. R. R. tracks	4,840.00
1,522.31	Lineal Feet 3' 6" Plain Concrete Sewer	12,837.65

722	Lineal Feet 3' 3"	Plain Concrete Sewer	6,498.00
1,544.99	Lineal Feet 3' 0"	Plain Concrete Sewer	20,758.42
1,801.30	Lineal Feet 2' 9"	Plain Concrete Sewer	13,258.82
3,319.93	Lineal Feet 2' 6"	Plain Concrete Sewer	29,072.20
943.23	Lineal Feet 2' 3"	Plain Concrete Sewer	6,471.89
239.7	Lineal Feet 3' 6"	Circular Concrete Sewer	1,486.14
625	Lineal Feet 3' 0"	Circular Concrete Sewer	3,187.50
448	Lineal Feet 24"	Vitrified Pipe Sewer, inc. Concrete Cradle	3,718.40
5,637.28	Lineal Feet 24"	Vitrified Pipe Sewer	27,004.18
5,397.60	Lineal Feet 22"	Vitrified Pipe Sewer	23,907.77
34.64	Lineal Feet 22"	Vitrified Pipe Sewer, inc. Concrete Cradle	242.48
125	Lineal Feet 20"	Vitrified Pipe Sewer, inc. Concrete Cradle	1,043.75
4,607.92	Lineal Feet 20"	Vitrified Pipe Sewer	19,529.07
12,153.51	Lineal Feet 18"	Vitrified Pipe Sewer	50,072.38
8,637.47	Lineal Feet 15"	Vitrified Pipe Sewer	26,891.55
3,085.55	Lineal Feet 12"	Vitrified Pipe Sewer, inc. Concrete Cradle	12,859.78
66,253.23	Lineal Feet 12"	Vitrified Pipe Sewer	163,856.38
143.7	Lineal Feet 5' 6"	Wood Stave Pipe Sewer	4,311.00
197	Lineal Feet 8"	V. P. S. for House Connection Drains....	267.50
80	Lineal Feet 6"	V. P. S. for House Connection Drains, inc. Concrete Cradle	160.00
57,800	Lineal Feet 6"	V. P. S. for House Connection Drains....	52,107.24
9,497.97	Lineal Feet 12"	V. P. S. for Basin Connection.....	13,936.34
3,566.71	Lineal Feet 10"	V. P. S. for Basin Connection.....	3,325.28
82.8	Lineal Feet 8"	V. P. S. for Basin Connection.....	121.70
12	Lineal Feet 8"	V. P. S. for Basin Connection, encased in Concrete	48.00
403	Lineal Feet Risers for House Connection Drains, inc. Y's.	.....	457.20
630.17	Lineal Feet Risers for House Connection Drains.....	.....	958.24
1,071	Manholes .....	.....	958.24
301	Basin Manholes .....	.....	72,948.50
55	Single Receiving Basins .....	.....	6,172.00
6	Double Receiving Basins .....	.....	985.00
1	Park Receiving Basin .....	.....	60.00
2	Park Inlet Basins .....	.....	165.00
423	Inlets .....	.....	17,745.00
17	8" Spurs on 24" V. P. Sewer .....	.....	72.00
276	6" Spurs on 24" V. P. Sewer .....	.....	859.00
297	6" Spurs on 22" V. P. Sewer .....	.....	1,021.76
328	6" Spurs on 20" V. P. Sewer .....	.....	621.34
3	8" Spurs on 18" V. P. Sewer .....	.....	15.00
673	6" Spurs on 18" V. P. Sewer .....	.....	1,162.65
2	8" Spurs on 15" V. P. Sewer .....	.....	4.00
357.1	6" Spur on 15" V. P. Sewer .....	.....	737.19
4,506	6" Spurs on 12" V. P. Sewer .....	.....	4,950.15
5	8" Spurs on 12" V. P. Sewer .....	.....	3.30
6	6" Spurs on 2'6" Concrete Sewer, Precast Type B.....	.....	5.00
1,917	6" Spurs on Concrete Sewer .....	.....	1,435.90
2	8" Spurs on Concrete Sewer .....	.....	2.00
69.5	Class "A" Concrete .....	.....	376.00
3	Relief Drains on L. I. R. R. Drains .....	.....	171.00
7,200	cu. yds. Replaced Material for Embankment.....	.....	72.00
3,913	Lineal feet Fence .....	.....	1,853.25
2,088.8	lbs. Reinforced Steel .....	.....	96.00
12,839	lbs. Reinforced Steel not shown on plan .....	.....	961.12

306.60	cu. yds. Rock Excavated and Removed	1,382.20
360	cu. yds. Excavation on 5'6" R. C. Sewer (Concrete Cradle)	828.00
1,005	cu. yds. Excavation on 5'6" R. C. Sewer on Piles.....	6,311.40
178	cu. yds. Excavation on 5'6" R. C. Sewer on Crib.....	1,014.60
1,036	cu. yds. Excavation on 9'x8'3" R. C. Sewer.....	16,151.24
1,150	cu. yds. Excavation on 10'x8'3" R. C. Sewer.....	19,895.00
6,040	cu. yds. Fill for Sewer Embankment on Maspeth Av.....	604.00
1,020	cu. yds. Broken Stone Placed in sewer trench on 5'6" R. C. Sewer (Concrete Cradle)	3,601.75
45	cu. yds. Mud excavated and removed on Maspeth Av.....	180.00
1.3	lineal feet 24" C. I. P. Drain, inc. cradle	15.60
3.1	lineal feet 10" C. I. P. Drain	17.75
1,521	lineal feet 10" C. I. P. Drain Force Main.....	4,563.00
3	Cleaning Shafts	654.00
178	cu. yds. Backfill on 5'6" R. C. Sewer Crib Sec.....	2,196.52
765	cu. yds. Backfill on 5'6" R. C. Sewer Pile Sec.....	1,683.00
963	cu. yds. Backfill on 9'x8'3" R. C. Sewer	9,148.50
989	cu. yds. Backfill on 10'x8'3" R. C. Sewer.....	11,274.60
9,755	ft. B. M. Timber for Foundation, furnished and laid.....	487.75
148,204	ft. B. M. Timber for Bracing and Sheet Piling.....	6,973.57
37	cu. yds. Rip-Rap, furnished and placed	74.00
1	Siphon Culvert, inc. M. H. and C. I. Pipe.....	1,185.00
195.7	cu. yds. Extra Concrete	1,565.75
195	cu. yds. Rock Excavation	95.00
19.8	cu. yds. Excavation for Stone Foundation	45.54
5.8	cu. yds. Extra Stone laid in Place	6.67
5.8	cu. yds. Extra Stone furnished for foundation	16.68
8	cu. yds. Rock	64.00
68.29	cu. yds. Fill for Sewer Embankment	2,048.70
9,070	Underground Pumping Chamber, etc.....	3,960.00
4	Standard Inlets, etc.....	180.00
1	Gate Chamber and appurt. (Complete).....	1,796.00
1	Breast Wall	100.00
350	Lineal feet 3' 6"x2' 6" Wooden Box Drain crossing Linden Av.....	1,050.00
231	cu. yds. Earth Fill on Box Drain crossing Linden Av.....	173.25
300	cu. yds. Ditch excavated crossing Linden Av.....	180.00
2	Standard Manhole Heads and Covers	30.00
1	Drop Chamber at James St. bet. Rust and Broad St.....	1,000.00
1	Drop Chamber at James St. and Rust St.....	1,500.00
1	Drop Chamber at Flushing and Collins Av.....	1,000.00
1	Drop Chamber at Collins and Hubbard Av.....	1,500.00
1	Drop Chamber at Matthew Pl. and Forbes St.....	500.00
1	Junction Chamber at Spruce and Fulton Sts.....	400.00
1	Junction Chamber at Charles and Rust Sts.....	132.00
1	Junction Chamber at Grand and Rust Sts.....	250.00
1	Junction Chamber at Robinson and Oak Aves.....	350.00
1	Junction Chamber at Alburtis and Roosevelt Aves.....	125.00
1	Junction Chamber at Dawson Pl. (24th St.).....	700.00
1	Junction Chamber at Spruce St. and Ridgewood Av.....	400.00
1	Junction Chamber at Jackson Av. and Forbes St.....	500.00
1	Junction Chamber at Woodhaven and Brandon Aves.....	400.00
1	Junction Chamber at Willow and Hull Aves. north.....	300.00
1	Junction Chamber at Willow and Jay Aves. north.....	200.00

1	Junction Chamber at Corona and Alstyne Aves.....	1,000.00
1	Junction Chamber at Atlantic Av. and Birch St.....	400.00
1	Junction Chamber at Roosevelt Av. and 46th St.....	125.00
1	Junction Chamber at Willow and Hull Aves. south.....	450.00
1	Junction Chamber at 91st Av. and 97th St. south.....	500.00
1	Junction Chamber at 91st Av. and 97th St. north.....	500.00
1	Junction Chamber at Hayes Av. and 51st St.....	900.00
1	Junction Chamber at 46th St. and Sackett St.....	350.00
1	Junction Chamber at Willow and Maspeth Aves.....	200.00
1	Junction Chamber at Grand St. and Willow Av.....	250.00
1	Junction Chamber at Alstyne and Junction Aves.....	500.00
1	Junction Chamber at Wisner Pl. and Maure Av.....	400.00
1	Junction Chamber at Jamaica Av. S. S. and Maure Av....	500.00
1	Junction Chamber at Jamaica Av. N. S. and Maure Av...	400.00
1	Junction Chamber at Ridgewood Av.....	300.00
1	Junction Chamber at Nott Av. and Vernon Av.....	350.00
1	Junction Chamber at 40th St. and Polk Av.....	500.00
1	Junction Chamber at 49th St. and Hayes Av.....	200.00
1	Junction Chamber at James St. and Flushing Av.....	1,000.00
1	Junction Chamber at Hancock St. and Nott Av.....	350.00
1	Junction Chamber at Ridgewood and Maure Aves.....	450.00
1	Junction Chamber at Manor and Jamaica Aves.....	400.00
1	Junction Chamber at Flushing and Collins Aves.....	1,500.00
1	Junction Chamber at 47th St. and Hayes Av.....	200.00
1	Junction Chamber at Jamaica Av. and No. Villa St.....	340.00
1	Junction Chamber at Birch and Fulton Sts.....	400.00
1	Junction Chamber at Queens Av. and Idaho St.....	500.00
1	Junction Chamber at Woodhaven and Jamaica Aves....	400.00
1	Junction Chamber at Queens Av. and Haydock (20) St..	700.00
9,791	Lineal feet Invert on 8' 0" Tunnel at 51st St.....	13,835.52
4,804	Lineal feet Sidewalks 8' 0" Tunnel at 51st St.....	4,323.60
4,024	Lineal feet Quarters on 8' 0" Tunnel at 51st St.....	3,731.00
5,028	Lineal feet Key on 8' 0" Tunnel at 51st St.....	3,185.88
1,997	Lineal feet Invert on 11' 0" Tunnel at 51st St.....	2,995.50
1,997	Lineal feet Sidewalks on 11' 0" Tunnel at 51st St.....	2,915.62
2,096	Lineal feet Quarters on 11' 0" Tunnel at 51st St.....	3,563.20
2,096	Lineal feet Key on 11' 0" Tunnel at 51st St.....	712.64
2,682	Lineal feet Invert on 12' 6" Tunnel at 51st St.....	3,862.08
2,682	Lineal feet Sidewalks on 12' 6" Tunnel at 51st St.....	4,881.24
2,682	Lineal feet Quarters on 12' 6" Tunnel at 51st St.....	5,711.66
2,682	Lineal feet Key on 12' 6" Tunnel at 51st St.....	965.52
67%	Concrete on Ditmars Av. shaft at 51st St.....	2,077.00
86%	Concrete on Hayes Av. shaft at 51st St.....	731.00
95%	Concrete on Kingsland Av. shaft at 51st St.....	323.00
95%	Concrete on Polk Av. shaft at 51st St.....	2,802.50
95%	Cast Iron Pipe Ditmars Av. shaft at 51st St.....	135.37
95%	Cast Iron Pipe Hayes Av. shaft at 51st St.....	1,116.00
95%	Cast Iron Pipe Kingsland Ave. shaft at 51st St.....	47.62
105%	Cast Iron Pipe Polk Av. shaft at 51st St.....	1,211.25
95%	Struct. Steel Ditmars Av. shaft at 51st St.....	115.15
95%	Struct. Steel Hayes Av. shaft at 51st St.....	513.00
95%	Struct. Steel Kingsland Av. shaft at 51st St.....	162.45
105%	Struct. Steel Polk Av. shaft at 51st St.....	367.65
95%	Rails, Stairs, Platforms, Ditmars Av. shaft.....	110.68
90%	Rails, Stairs, Platforms, Hayes Av. shaft	233.10

90% Rails, Stairs, Platforms, Kingsland Av. shaft	97.20
77% Rails, Stairs, Platforms, Polk Av. shaft	98.56
100% Rails, Stairs, Platforms, Kingsland Av. shaft	95.00
100% Cleaning Shaft, Head and Cover, Hayes Av. at 51st St....	95.00

\$1,224,956.81

Built: Concrete Sewer—40,471.91 lin. ft..... 7.6648 Miles

Built: Pipe Sewer—106,543.18 lin. ft. 20.1786 Miles

The following contracts were completed:

	<i>Cost</i>
BRANDON AVENUE from Hamilton Av. to Cedar Av., Fourth Ward	\$ 1,101.11
WOODMERE PLACE from Freedom Av. to Herald Av., and in OXFORD AVENUE from Ridgewood Av. to Fulton St., Fourth Ward	5,436.93
MEDINA PLACE from Parcell St. to Gerry Av., and in GERRY AVENUE from Chicago St. to Toledo St., Second Ward...	2,034.27
LAWSON PLACE (24th St.) from the crown about 600'0" S. of California Av. to California Av., and in CALIFORNIA AVENUE from Lawson Place to Kendall Pl. (23rd St.), Third Ward	2,294.40
CANAL AVENUE from Ridgewood Av. to Syosset St., SYOSSET STREET from Canal Av. to Shaw Av., SHAW AVENUE from Syosset St. to Jamaica Av., UNUM STREET from Yarmouth St. to Snediker Av., SNEDIKER AVENUE from Unum St. to Jamaica Av., YARMOUTH STREET from Syosset St. to Jamaica Av., and in JAMAICA AVENUE from Ferry St. to crown about 200'0" east of the Borough Line, Fourth Ward	40,829.40
Open ditch and wooden box drain crossing.	
LINDEN AVENUE about 300'0" north of Bayside Av., Third Ward	1,433.25
GREENE AVENUE from Forest Av. to the crown about 250'0" north of Grand View Av., Second Ward	2,149.03
EMERSON STREET from Guion Av. to Napier Av., Fourth Ward	580.60
BEDFORD AVENUE from Kimball Av. to crown 250'0" south of Atlantic Av., and in GREENWOOD AVENUE from Kimball Av. to Atlantic Av., Fourth Ward	12,439.52
HUGHES STREET (Hancock St.) from Shaler St. to Sedgwick St., Second Ward	5,872.33
SHALER STREET from Fremont St. to Cornelia St., Second Ward.	7,668.43
ETNA PLACE from Gerry Av. to Parcell St., in PARCELL STREET from Toledo St. to Chicago St., with a temporary connection to sewer in Parcell St. at Chicago St., Second Ward	3,319.58
SYOSSET STREET from Ocean View Av. to Gherardi Av., Fourth Ward	644.29
MAPLE STREET from Freedom Av. to Herald Av., and in OXFORD AVENUE from Maple St. to Ridgewood Av., Fourth Ward	3,755.60
CENTER STREET from Wyckoff Av. to a point about 400'0" N. from Wyckoff Av., Second Ward.....	1,218.50
HUNTERSPPOINT AVENUE from Van Pelt St. to Borden Av., BORDEN AVENUE from Hunterspoint Av. to Laurel Hill Av., LAUREL HILL AVENUE from Borden Av. to Towns Pl.,	

TOWNS PLACE from Laurel Hill Av. to Locust St.,	
LOCUST STREET from Laurel Hill Blvd. to Anable Av.,	
ANABLE AVENUE from Locust St. to Packard St.,	
PACKARD STREET from Anable Av. to Greenpoint Av.,	
GREENPOINT AVENUE from Packard St. to Queens Blvd., N. S.	
QUEENS BOULEVARD from Greenpoint Av. to Fitting St., and in	
NELSON (NOTT) AVENUE from Packard St. to Bliss St., First	
and Second Wards	57,147.93
ROBINSON AVENUE from Oak Av. to Larch Av.,	
NARCISSUS STREET from Robinson Av. to Phillips Av., and in	
PHILLIPS AVENUE from Narcissus St. to Queens Av., Third Ward	11,650.51
CHURCH STREET from St. Ann's Av. to Metropolitan Av., Second	
and Fourth Wards	4,710.05
HANCOCK STREET from Payntar Av. to crown about 200'0" N.	
from Payntar Av., First Ward	2,477.68
DECATUR STREET from Wyckoff Av. to Cypress Av., Second	
Ward	2,501.65
LOTT STREET from Jamaica Av. to Ashland St.,	
RACKETT STREET from Jamaica Av. to Ashland St.,	
WINDOM STREET from Lott Av. to Rackett St.,	
SHIPLEY STREET from Lott Av. to Rackett St.,	
STANTON STREET from Lott Av. to Rackett St., and in	
ASHLAND STREET from Lott Av. to Rackett St., Fourth Ward...	15,184.30
MCPHERSON (SLOCUM) STREET from Cornelia St. to Catalpa	
Av., Second Ward	2,117.05
CHAFFEE (SHERMAN) STREET from Cornelia St. to Catalpa	
Av., Second Ward	1,752.67
NAPIER AVENUE from Beaufort Av. to Atlantic Av., and in	
CHICHESTER AVENUE from Napier Av. to Guion Av., Fourth	
Ward	3,996.18
HUMPHREY STREET from Grand Av. to Astoria Av.,	
McINTOSH STREET from Grand Av. to Lyon Av. and in	
LYON AVENUE from Gilmore St. to McIntosh St., Second Ward..	10,151.39
ATLANTIC AVENUE, N. S., from Freedom Av. to Greenwood Av.,	
HERALD AVENUE from Atlantic Av., N. S., to Ridgewood Av.,	
FULTON STREET from Herald Av. to Guion Av., and in	
NAPIER AVENUE from Atlantic Av., N. S., to Jamaica Av., Fourth	
Ward	26,436.92
IVY STREET from Toledo St. to Chicago St., and in	
CHICAGO STREET from Ivy St. to Norton St., Second Ward.....	2,062.12
Temporary park basin on the westerly side of GUION AVENUE	
about 375'0" north of Brandon Av., Fourth Ward.....	71.00
ATLANTIC AVENUE, N. S., from Birch St. to Spruce St., and in	
SPRUCE STREET from Atlantic Av., N. S., to crown about 220'0"	
north of Atlantic Av., Fourth Ward	2,024.60
Dry weather flow sewer in	
MASPEATH AVENUE from Newtown Creek to Rust St., and in	
RUST STREET from Maspeth Av. to Clarke Av., and a storm water	
sewer from Rust St. to Creek St. in the easement to be acquired	
by the City of New York, and a combined sewer in	
CLARK AVENUE from Rust St. to Perry Av., Second Ward.....	77,873.61
Receiving basin on the N. E. corner of SEDGWICK STREET and	
CATALPA AVENUE, Second Ward	289.91
Receiving basin on the north and east corners of MADISON	
STREET and WOODWARD AVENUE, Second Ward.....	549.55

EDISON PLACE from Central Av. to Edsall Av., Second Ward....	1,746.83
CHICHESTER AVENUE from Freedom Av. to Guion Av.,	
OXFORD AVENUE from Beaufort Av. to Colby St.,	
PORTLAND AVENUE from Atlantic Av., S. S., to crown about 200'0" S. of Chichester Av.,	
HERALD AVENUE from Chichester Av. to Atlantic Av., S. S.,	
GUION AVENUE from Chichester Av. to Atlantic Av., S. S., and in	
ATLANTIC AVENUE, S. S., from Portland Av. to Napier Av., Fourth Ward	23,513.82
ATLANTIC AVENUE, N. S., from Willard (Vanderveer) Av. to Freedom Av., and in	
HATCH AVENUE from Atlantic Av., N. S., to Fulton St., Fourth Ward	9,015.83
ST. FELIX AVENUE from Cypress Av. to Charlotte Pl., Second Ward	8,709.53
RIDGEWOOD AVENUE from Herald Av. to the Rockaway Beach Branch of the L. I. R. R., and in	
HERALD AVENUE from Ridgewood Av. to Maple St., Fourth Ward	5,813.02
KIMBALL AVENUE from Greenwood Av. to Stoothoff Av.,	
CHESTNUT STREET from Kimball Av. to Jerome Av., and in	
CEDAR AVENUE from Kimball Av. to Jerome Av., Fourth Ward..	8,816.22
EMERSON STREET from Oxford Av. to Freedom Av., Fourth Ward	1,693.18
Park inlet basin on the N. E. corner of BEACH 130th STREET and NEWPORT AVENUE, Fifth Ward	195.50
BEAUFORT AVENUE from Freedom Av. to Seattle St., Fourth Ward	2,367.84
Receiving basin on the easterly corner of PARK PLACE and PLEASURE AVENUE, First Ward	331.00
ANABLE AVENUE from Packard St. to Bliss St., First Ward.....	2,581.85
MCCOMB PLACE from Central Av. to Myrtle Av.,	
RIDGEWOOD PLACE from Central Av. to Copeland Av., and in	
COPELAND AVENUE from Ridgewood Pl. to McComb Pl., Second Ward	12,194.60
FULTON STREET from Willard Av. to Diamond St.,	
HATCH AVENUE from Fulton St. to Ridgewood Av., and in	
DIAMOND STREET from Fulton St. to Jamaica Av., Fourth Ward	14,386.83
STOOTHOFF AVENUE from Jamaica Av. to Brandon Av.....	895.70
Receiving basins on NELSON (NOTT) AVENUE:	
on the N. E. corner Van Buren St.,	
on the N. E. corner Lowry St.,	
on the N. E. corner Bragaw St.,	
on the S. E. and S. W. corners Van Pelt St., First Ward.....	1,422.51
CHAUNCEY STREET from Woolsey Av. to Potter Av., First Ward	3,080.58
LEGGETT AVENUE from Jamaica Av. to Ashland St.,	
ROSWELL PLACE from Leggett Av. to 250'0" E. of Leggett Av.,	
FARRAGUT STREET from Leggett Av. to 230'0" E. of Leggett Av.,	
SHIPLEY STREET from Leggett Av. to 200'0" E. of Leggett Av., and in	
STANTON STREET from Leggett Av. to 215'0" E. of Leggett Av., Fourth Ward	10,019.72
BENEDICT AVENUE from Ferris St. to Ashland St., Fourth Ward	1,327.84
Receiving basin on the N. W. cor. of METROPOLITAN AVENUE and BREVOORT STREET, Fourth Ward	289.00

FORBES STREET from California Av. to Jackson Av.,	
JACKSON AVENUE from Forbes St. to Clarence St.,	
DUNSGING STREET from Jackson Av. to crown about 355'0" south of Mitchell Av., and in	
CLARENCE STREET from State St. to crown about 315'0" south of Mitchell Ave., Third Ward.....	29,993.89
ARMAND PLACE from Cypress Av. to Walter St., Second Ward...	4,568.13
48th STREET from Polk Av. to Hayes Av.,	
49th STREET from Polk Av. to Hayes Av.,	
50th STREET from Polk Av. to Hayes Av.,	
ALBURTIS AVENUE from Polk Av. to Fillmore Av., and in	
FILLMORE AVENUE from 46th St. to 48th St., Second Ward....	11,207.20
HATCH AVENUE from Chichester Av. to Atlantic Av., Fourth Ward	1,411.13
NOTT AVENUE from the East River to Hancock St., First Ward..	40,353.49
Receiving basin on the easterly corner of MILL STREET and FRANKLIN STREET, First Ward	318.50
PROSPECT AVENUE from Woodbine St. to Linden St., Second Ward	3,504.12
HUGHES STREET from Fresh Pond Road to Sedgwick St., and in	
SEDGWICK STREET from Hughes St. to Sedgwick Pl., Second Ward	2,747.20
PARK AVENUE from Jamaica Av. to Ferris Pl., Fourth Ward....	3,095.97
Receiving basin in BEACH 117th STREET on the S. E. and S. W. corners of Rockaway Beach Boulevard, and on the N. W. and S. W. corners of Newport Av., Fifth Ward.....	1,956.25
Temporary dry weather flow sewer in	
MAURICE AVENUE from Toledo St. to Chicago St., with a tem- porary connection to the Toledo St. sewer, Second Ward.....	2,347.35
LYON AVENUE from McIntosh St. to Astoria Av.,	
45th STREET from Astoria Av. to Burnside Av., and in	
ASTORIA AVENUE from 45th St. to 48th St., Second Ward.....	9,522.59
BURNSIDE AVENUE from 45th St. to 49th St.,	
46th STREET from Astoria Av. to Burnside Av.,	
47th STREET from Astoria Av. to Burnside Av., and in	
48th STREET from Astoria Av. to Burnside Av., Second Ward....	8,734.30
QUEENS AVENUE from Haydock (20th) St. to Norwood Pl. (26th St.), Third Ward	42,101.50
PACKARD STREET from Greenpoint Av. to Queens Blvd., First Ward	1,347.30
BIRCH STREET from Atlantic Av., S. S. to crown 150'0" S. of Ridgewood Av.,	
FULTON STREET from Birch St. to Spruce St., and in	
SPRUCE STREET from crown 220'0" N. of Atlantic Av. to Ridge- wood Av., Fourth Ward	23,134.67
KINGSLAND AVENUE from Way Av. to Luydig Pl.,	
LOUONA AVENUE from Kingsland Av. to Roosevelt Av., and in	
46th STREET from Roosevelt Av. to Polk Av., Second Ward.....	16,696.12
FILLMORE AVENUE from 46th St. to Junction Av., Second Ward	4,899.24
REVIEW AVENUE from Greenpoint Av. to Howard St., and in	
HOWARD STREET from Review Av. to Starr Av., First Ward...	3,153.55
ALBURTIS AVENUE from Roosevelt Av. to Polk Av.,	
FERGUSON (CEDAR) STREET from Alburtis Av. to 51st St.,	
EDSON (PROSPECT) STREET from Alburtis Av. to 51st St.,	
DARVALL (HIGH) STREET from Alburtis Av. to 51st St.,	

MICKLE (WALNUT) STREET from Alburts Av. to 51st St., and in BRADY STREET from Darvall St. to Polk Av., Second Ward....	20,307.37
Receiving basin on FAIRVIEW AVENUE on the easterly corner of Gates Av., and on the northerly corner of Putnam Av., Second Ward	309.75
FOREST PARKWAY from Jamaica Av. to Ashland St., FERRY STREET from Jamaica Av. to Ashland St., and in ASHLAND STREET from Forest Parkway to Ferry St., Fourth Ward	12,363.55
GRAND AVENUE from Ditmars Av. to McIntosh St., BUTLER STREET from Grand Av. to Lyon Av., CURTIS STREET from Grand Av. to Lyon Av., ERICSSON Street from Grand Av. to Lyon Av., and in GILMORE STREET from Grand Av. to Lyon Av., Second Ward....	27,372.80
46th STREET (NATIONAL AVENUE) from Polk Av. to Hayes Av., 45th STREET (De WITT STREET) from Polk Av. to Hayes Av., 44th STREET (BENJAMIN STREET) from Polk Av. to Hayes Av., 43rd STREET (GRINNELL AVENUE) from Polk Av. to Hayes Av., 42nd STREET (RANDALL AVENUE) from Polk Av. to Hayes Av., 41st STREET (EVERGREEN) from Polk Av. to Hayes Av., 40th STREET (CLINTON AVENUE) from Polk Av. to Hayes Av. and in	
JUNCTION AVENUE from Polk Av. to Hayes Av., Second Ward..	46,775.15
Overflow pipe line, gate and connection to well at the ELMHURST DISPOSAL PLANT, Second Ward	3,379.00

\$741,775.88

The following assessment maps and lists have been completed and forwarded to the Board of Assessors:

	<i>Total Cost</i>
POLK AVENUE from 51st St. to Junction Av., Second Ward.....	\$ 33,587.43
BRANDON AVENUE from Hamilton St. to Cedar Av., Fourth Ward	1,295.88
FOREST AVENUE from Cornelia St. to Brooklyn Rapid Transit Co. and from Putnam Av. to Woodbine St., Second Ward.....	4,330.87
JOSLIN STREET from Larch Av. to Queens Av., Third Ward....	2,306.84
KOSSUTH PLACE from Myrtle Av. to Central Av., Third Ward..	1,715.68
LAWSON PLACE (24th STREET) from the crown about 600'0" S. of California (Cypress) Av. to California Av., Third Ward....	2,580.74
MEDINA PLACE from Parcell St. to Gerry Av., and in GERRY AVENUE from Chicago St. to Toledo St., Second Ward..	2,639.32
19th STREET from Cypress Av. to Franconia Av., Third Ward....	2,127.79
WOODBINE STREET from Fresh Pond Rd. to Prospect Av., and in PROSPECT AVENUE from Woodbine St. to Madison St., Second Ward	5,824.50
WOODMERE PLACE from Freedom Av. to Herald Av., and in OXFORD AVENUE from Ridgewood Av. to Fulton Pl., Fourth Ward	6,148.80
Receiving basin on the southeast corner of Hunterspoint Av. and East Av., First Ward	230.47
Park inlet basin on the southerly intersection of Fairview Av. and Bayside Pl., Fifth Ward	133.37
MAPLE STREET from Freedom Av. to Herald Av., and in OXFORD AVENUE from Maple St. to Ridgewood Av., Fourth Ward	4,300.00
CANAL AVENUE from Ridgewood Av. to Syosset St., SYOSSET STREET from Canal Av. to Shaw Av., SHAW AVENUE from Syosset St. to Jamaica Av.,	

UNUM STREET from Yarmouth St. to Snediker Av.,	
SNEDIKER AVENUE from Unum St. to Jamaica Av.,	
YARMOUTH STREET from Syosset St. to Jamaica Av., and in	
JAMAICA AVENUE from Ferry St. to crown about 200'0" E. of	
Borough Line, Fourth Ward	48,338.08
ETNA PLACE from Gerry Av. to Parcell St., and in	
PARCELL STREET from Toledo St. to Chicago St., Second Ward..	3,685.04
GREENE AVENUE from Forest Av. to crown 250'0" N. of Grand	
View Av., Second Ward	2,483.39
SYOSSET STREET from Ocean View Av. to Gherardi Av., Fourth	
Ward	795.95
BEDFORD AVENUE from Kimball Av. to crown 250'0" S. of Atlan-	
tic Av. and in	
GREENWOOD AVENUE from Kimball Av. to Atlantic Av., Fourth	
Ward	14,491.02
HUNTERSPOINT AVENUE from Van Pelt St. to Borden Av.,	
BORDEN AVENUE from Hunterspoint Av. to Laurel Hill Av.,	
LAUREL HILL AVENUE from Borden Av. to Towns Pl.,	
TOWNS PLACE from Laurel Hill Av. to Locust St.,	
LOCUST STREET from Laurel Hill Boulevard to Anable Av.,	
ANABLE AVENUE from Locust St. to Packard St.,	
PACKARD STREET from Anable Av. to Greenpoint Av.,	
GREENPOINT AVENUE from Packard St. to Queens Boulevard,	
N. S.,	
QUEENS BOULEVARD, N. S., from Greenpoint Av. to Fitting St.,	
and in	
NELSON (NOTT) AVENUE from Packard St. to Bliss St., First	
and Second Wards	65,313.54
ANABLE AVENUE from Packard St. to Bliss St., First Ward....	2,751.65
CENTRE STREET from Wyckoff Av. to a point 400'0" N. of	
Wyckoff Av., Second Ward	1,393.69
ROBINSON AVENUE from Oak Av. to Larch Av.,	
NARCISSUS STREET from Robinson Av. to Phillips Av., and in	
PHILLIPS AVENUE from Narcissus St. to Queens Av., Third Ward	13,377.42
LOTT AVENUE from Jamaica Av. to Ashland St.,	
RACKET STREET from Jamaica Av. to Ashland St.,	
WINDOM STREET from Lott Av. to Racket St.,	
SHIPLEY STREET from Lott Av. to Racket St.,	
STANTON STREET from Lott Av. to Rackett St., and in	
ASHLAND STREET from Lott Av. to Racket St., Fourth Ward...	17,773.70
NAPIER AVENUE from Beaufort Av. to Atlantic Av., and in	
CHICHESTER AVENUE from Napier Av. to Guion Av., Fourth	
Ward	4,604.35
EMERSON STREET from Guion Av. to Napier Av., Fourth Ward..	677.53
HANCOCK STREET from Payntar Av. to crown 220'0" N. of	
Payntar Av., First Ward	2,983.21
CHURCH STREET from St. Ann's Av. to Metropolitan Av., Fourth	
Ward	5,141.56
SHALER STREET from Fremont St. to Cornelia St., Second Ward	7,668.43
HUGHES (HANCOCK) STREET from Shaler St. to Sedgwick St.,	
Second Ward	5,872.33
McPHERSON (SLOCUM) STREET from Cornelia St. to Catalpa	
Av., Second Ward	2,491.44
CHAFFEE (SHERMAN) STREET from Cornelia St. to Catalpa	
Av., Second Ward	2,042.54

DECATUR STREET from Wyckoff Av. to Cypress Av., Second Ward	2,783.74
IVY STREET from Toledo St. to Chicago St.,	
CHICAGO STREET from Ivy St. to Horton St., with a temporary dry weather flow connection to Toledo St. sewer, Second Ward..	2,818.47
ATLANTIC AVENUE, N. S., from Freedom Av. to Greenwood Av.	
HERALD AVENUE from Atlantic Av., N. S., to Ridgewood Av.,	
FULTON STREET from Herald Av. to Guion Av., and in	
NAPIER AVENUE from Atlantic Av., N. S., to Jamaica Av., Fourth Ward	30,497.56
CHICHESTER AVENUE from Freedom Av. to Guion Av.,	
OXFORD AVENUE from Beaufort Av. to Colby St.,	
PORTLAND AVENUE from Atlantic Av., S. S., to crown 200'0" S. of Chichester Av.,	
HERALD AVENUE from Chichester Av. to Atlantic Av., S. S.,	
GUION AVENUE from Chichester Av. to Atlantic Av., S. S. and in	
ATLANTIC AVENUE, S. S., from Portland Av. to Napier Av., Fourth Ward	25,478.89
ST. FELIX AVENUE from Cypress Av. to Charlotte Pl., Second Ward	10,069.72
ARMAND PLACE from Cypress Av. to Walter St., Second Ward..	4,901.95
CHAUNCEY STREET from Woolsey Av. to Potter Av., First Ward	3,450.50
ATLANTIC AVENUE, N. S., from Willard Av. to Freedom Av., and in	
HATCH AVENUE from Atlantic Av., N. S., to Fulton St., Fourth Ward	9,752.29
LYON AVENUE from McIntosh St. to Astoria Av.,	
45th STREET from Astoria Av. to Burnside Av., and in	
ASTORIA AVENUE from 45th St. to 48th St., Second Ward.....	10,695.61
GRAND AVENUE from Ditmars Av. to McIntosh St.,	
BUTLER STREET from Grand Av. to Lyon Av.,	
CURTIS STREET from Grand Av. to Lyon Av.,	
ERICSSON STREET from Grand Av. to Lyon Av., and in	
GILLMORE STREET from Grand Av. to Lyon Av., Second Ward..	29,629.16
HUMPHREY STREET from Grand Av. to Astoria Av.,	
McINTOSH STREET from Grand Av. to Lyon Av., and in	
LYON AVENUE from Gilmore St., to McIntosh St., Second Ward..	10,831.13
BURNSIDE AVENUE from 45th St. to 49th St.,	
46th STREET from Astoria Av. to Burnside Av.,	
47th STREET from Astoria Av. to Burnside Av., and in	
48th STREET from Astoria Av. to Burnside Av., Second Ward....	10,025.83
EDISON PLACE from Central Av. to Edsall Av., Second Ward....	1,927.59
KIMBALL AVENUE from Greenwood Av. to Stoothoff Av.,	
CHESTNUT STREET from Kimball Av. to Jerome Av., and in	
CEDAR AVENUE from Kimball Av. to Jerome Av. Fourth Ward..	9,421.47
McCOMB PLACE (WYCKOFF AVENUE) from Central Av. to Myrtle Av.,	
RIDGEWOOD PLACE from Central Av. to Copeland Av., and in	
COPELAND AVENUE from Ridgewood Av. to McComb Pl., Second Ward	13,141.28
STOOTHOFF AVENUE from Jamaica Av., to Brandon Av., Fourth Ward	1,064.28
EMERSON STREET from Oxford Av. to Freedom Av., Fourth Ward	1,873.63

VAN DAM STREET from Thompson Av. to Skillman Av., First Ward	5,350.02
FORBES STREET from California Av. to Jackson Av.,	
JACKSON AVENUE from Forbes St., to Clarence St.,	
DUNSING STREET from Jackson Av., to crown 356'0" S. of Mitchell Av., and in	
CLARENCE STREET from State St., to crown 315'0" S. of Mitchell Av., Third Ward	33,875.91
BIRCH STREET from Atlantic Av., S. S., to crown 150'0" S. of Ridgewood Av.,	
FULTON STREET from Birch St. to Spruce St., and in	
SPRUCE STREET from crown 220'0" N. of Atlantic Av. to Ridgewood Av., Fourth Ward	26,362.90
LEGGETT AVENUE from Jamaica Av. to Ashland St.,	
ROSWELL PLACE from Legget Av. to a point about 250'0" E. of Leggett Av.,	
FARRAGUT STREET from Legget Av. to a point about 230'0" E. of Legget Av.,	
SHIPLEY STREET from Legget Av. to a point about 200'0" E. of Legget Av., and in	
STANTON STREET from Legget Av. to a point about 215'0" E. of Legget Av., Fourth Ward	10,713.98
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	\$523,772.47

The following is a list of improvements for which preliminary authorization was granted:

	<i>Estimated cost</i>
ALBURTIS AVENUE from Lurting St. to Corona Av.,	
CORONA AVENUE from Way Av. to 51st St., and in	
BARKINS STREET from Corona Av. to Alstyne Av., Second Ward	\$20,200.00
ANTHON AVENUE from Halleck Av. to Van Cortland Av., Second Ward	500.00
ATLANTIC AVENUE, N. S., from Rockaway Boulevard to Bigelow Av., and in	
YARMOUTH STREET from Atlantic Av. to Syosset St., Fourth Ward	53,100.00
AUDLEY (WALNUT) STREET from St. Ann's Av. to Mayfair Rd., Fourth Ward	6,000.00
Temporary wood and concrete drain in BEAVER CREEK, to provide for flow in Beaver Creek from Beaver St. to culvert under L. I. R. R. about 730'0" S. of Beaver St., thence westerly a distance of about 240'0"; thence southerly for a distance of about 370'0"; thence westerly in Catherine St. for a distance of about 350'; thence southerly through Water St. for a distance of about 700'0" to South St., including the reconstruction of the inverted siphon in South St., Fourth Ward	19,700.00
BROAD STREET from Maspeth Av. to Grand St.,	
VAN COTT AVENUE from Maspeth Av. to Grand St.,	
HIGH STREET from Maspeth Av. to Charles St.,	
HILL STREET from Rust St. to Clermont Av.,	
HERBERT STREET from Rust St. to High St.,	
CHARLES STREET from Rust St. to Grand St., and in	
BIELBY STREET from Rust St. to Van Cott Av., Second Ward...	28,800.00
BROAD STREET from Hull Av. to Clinton Av.,	
CLINTON AVENUE from Broad St. to Mueller St.,	

REMSEN PLACE from Clinton Av. to Perry Av.,	
PERRY AVENUE from Maurice Av. to Mueller St.,	
MASPETH AVENUE from Clermont Av. to Willow Av., and in	
CLERMONT AVENUE from Maspeth Av. to Hull Av., Second Wd.	35,300.00
BUCHMAN AVENUE from Myrtle Av. to Van Cortland Av., Fourth	
Ward	2,100.00
CHAUNCEY STREET from Woolsey Av. to Potter Av., Fourth	
Ward	2,300.00
EMERSON STREET from Oxford Av. to Freedom Av., Fourth	
Ward	2,200.00
FERRISS STREET from Ferry St. to Yarmouth St., Fourth Ward..	600.00
50th STREET from Hayes Av. to crown about 460' N. of Jackson Av.,	
49th STREET from Hayes Av. to Burnside Av.,	
48th STREET from Hayes Av. to Burnside Av.,	
47th STREET from Hayes Av. to Burnside Av.,	
46th STREET from Hayes Av. to Burnside Av.,	
45th STREET from Hayes Av. to Burnside Av.,	
44th STREET from Hayes Av. to crown about 180'0" S. of Burnside	
Av., ..	
43rd STREET from Hayes Av. to crown about 250'0" N. of Jackson	
Av.,	
42nd STREET from Hayes Av. to Jackson Av.,	
41st STREET from Hayes Av. to crown about 200' N. of Hayes Av.,	
and in	
JACKSON AVENUE, both sides, from 43rd St. to 51st St., Second	
Ward	57,100.00
FORBES (18th) STREET from California Av. to Franconia Av.,	
Third Ward	2,600.00
FULTON PLACE from Atfield Pl. to No. Villa St., and in	
NORTH MORRIS AVENUE from Fulton Pl. to Jamaica Av.,	
Fourth Ward	9,800.00
FULTON STREET from Birch St. to Lefferts Av., and in	
LEFFERTS AVENUE from Fulton St. to the crown about 200'0"	
S. of Fulton St., Fourth Ward	2,400.00
FULTON STREET from Freedom Av. to Herald Av.,	
SHERRY STREET from a point about 350'0" W. of Freedom Av. to	
Herald Av.,	
FENHURST PLACE from Sherry St. to Herald Av., and in	
OXFORD AVENUE from Fulton St. to Atlantic Av., Fourth Ward	20,000.00
Temporary open drain in GENESEE STREET from So. Conduit Av.	
to Wortman Av., Fourth Ward	62,200.00
Pumping station at Genesee St. and No. Conduit Av., to lay a tem-	
porary pressure pipe in No. Conduit Av. from Genesee St. to	
Sutter Av., and in Sutter Av. from No. Conduit Av. to Elderts	
Lane, and a temporary drain in Sutter Av., from Elderts Lane to	
Railroad Av., Fourth Ward	55,000.00
Combined sewer in GENESEE STREET from Liberty Av. to No.	
Conduit Av., and a storm water sewer in GENESEE STREET	
from No. Conduit Av. to South Conduit Av., Fourth Ward....	202,800.00
GEROLD (19th) STREET from California Av. to Sanford Av.,	
Third Ward	2,000.00
GRAND STREET from Queens Boulevard to L. I. R. R., Second	
Ward	23,900.00
HANCOCK STREET from Wyckoff Av. to Evergreen Branch of the	
L. I. R. R., Second Ward	500.00

HANCOCK STREET from Nott Av. to 14th St., and in 13th and 14th STREETS from Hancock St. to the Boulevard, First Ward	4,600.00
HAYES AVENUE from 40th St. to Junction Av., Second Ward....	1,400.00
HICKORY STREET from Freedom Av. to Oxford Av., and in OXFORD AVENUE from Hickory St. to Maple St., Fourth Ward	3,400.00
Storm water sewer in HOBSON AVENUE from Newtown Creek to Halle Av., and a combined sewer in:	
HOBSON AVENUE from Halle Av. to Jones Av., JONES AVENUE from Clifton Av. to Laurel Hill Blvd., LAUREL HILL BOULEVARD from Jones Av. to Borden Av., MONTGOMERY AVENUE from Columbine Av. to Jones Av., CONGRESS AVENUE from Laurel Hill Blvd. to Montgomery Av., TOWNSEND AVENUE from Laurel Hill Blvd. to Hobson Av., WATERS AVENUE from Hobson Av. to Clifton Av., JOY AVENUE from Montgomery Av. to Clifton Av., COLUMBINE AVENUE from Hobson Av. to Clifton Av., CLIFTON AVENUE from Waters Av. to Columbine Av., with a tem- porary connection to sewer in Columbine Av., Second Ward....	83,600.00
HONEYWELL STREET from Nelson (Nott) Av. to Hunterspoint Av., First Ward	5,200.00
80th (HUDSON) STREET from Liberty Av. to Atlantic Av., ATLANTIC AVENUE, N. S., from 80th St. to 76th St. (Lott Av.) 76th STREET from Atlantic Av., N. S., to 93rd Av. (Pratt Pl.) 93rd AVENUE from 76th St. to Elderts Lane, ELDERTS LANE from 93rd Av. to Jamaica Av., 78th STREET (SNEDEKER AVENUE) from Atlantic Av., N. S., to Jamaica Av., and in JAMAICA AVENUE from Elderts Lane to the crown about 200'0"	
E. of Elderts Lane, Fourth Ward	121,600.00
IDAHO (21st) STREET, westerly side, from Queens Av. to Fran- conia Av., JOSLIN (22nd) STREET from Queens Av. to Franconia Av., and in KENDALL PLACE (23rd St.) from Queens Av. to Franconia Av., Third Ward	11,100.00
KIMBALL AVENUE from So. Curtis Av. to So. Cochran Av., and in SOUTH COCHRAN AVENUE from Liberty Av. to crown 350'0" N. of Kimball Av., Fourth Ward	4,800.00
LIBERTY AVENUE from Amber (77th) St. to Huntington St. (102nd Rd.), HUNTINGTON STREET (102nd Rd.) from Liberty Av. to Rock- away Blvd., and in ROCKAWAY BOULEVARD from Huntington St. (102nd Rd.) to Liberty Av., Fourth Ward	117,000.00
MCCORMICK AVENUE from Rockaway Rd. to Liberty Av., Fourth Ward	4,100.00
MASPETH AVENUE from Rust St. to Clermont Av., and in CLERMONT AVENUE from Maspeth Av. to Grand St., Second Ward	14,900.00
MATTHEW PLACE from Forbes St. to Dunsing St., DUNSING STREET from Matthew Pl. to Marston Av., MARSTON AVENUE from Dunsing St. to Beekman St., BEEKMAN STREET from Marston Av. to Jackson Av., JACKSON AVENUE from Beekman St. to Murray St., and in	

ASPINWALL STREET from Jackson Av. to State St., Third Ward	28,000.00
METROPOLITAN AVENUE from Brevoort St. to Richmond Hill Av., Fourth Ward	8,300.00
MOORE STREET from Queens Blvd. to Hunterspoint Av., First Ward	6,700.00
MYRTLE AVENUE from Hamilton Av. to Napier (Washington) Av., Second Ward	18,000.00
NORTH RAILROAD AVENUE from 51st St. to Louona Av.,	
SOUTH RAILROAD AVENUE from 51st St. to Louona Av.,	
ALBURTIS AVENUE from Kingsland Av. to Lurting St., and in WAY AVENUE from Kingsland Av. to Lurting St., Second Ward..	26,800.00
NORTH VILLA STREET from Jamaica Av. to Metropolitan Av.,	
HILLSIDE AVENUE, N. S., from No. Villa St. to Waverly Pl.,	
WAVERLY PLACE from Jamaica Av. to Metropolitan Av.,	
NO. CURTIS AVENUE from Jamaica Av. to Hillside Av., and in NO. WICKES STREET from Jamaica Av. to Hillside Av., Fourth Ward	21,500.00
NORTH VILLA STREET from Ridgewood Av. to Jamaica Av.,	
NORTH COCHRAN AVENUE from Ridgewood Av. to Jamaica Av., and in	
NORTH CURTIS AVENUE from Ridgewood Av. to Jamaica Av., Fourth Ward	6,100.00
NORTH WICKES STREET from Fulton Pl. to Ridgewood Av., and in	
NORTH VILLA STREET from Fulton Pl. to Ridgewood Av., Fourth Ward	2,300.00
OXFORD AVENUE from a point 30'0" S. of Ashland St. to Ashland St., and in	
ASHLAND STREET from Oxford Av. to Freedom Av., Fourth Ward	2,100.00
PACKARD STREET from Greenpoint Av. to Queens Blvd., First Ward	1,000.00
PROSPECT AVENUE from Woodbine St. to Linden St., Fourth Ward	3,200.00
REVIEW AVENUE from Greenpoint Av. to Howard St., and in	
HOWARD STREET from Review Av. to Starr St., First Ward....	2,000.00
ROCKDALE (HILL) STREET from Queens Blvd. to Nelson (Nott) Av., First Ward	2,000.00
ROOSEVELT AVENUE from Alburdis Av. to 51st St.,	
GUNTHER STREET from Alburdis Av. to 51st St., and in	
HAVEMEYER STREET from Alburdis Av. to 51st St., Second Ward	9,200.00
ST. ANN'S AVENUE from Church St. to Lefferts Av., Fourth Wd.	600.00
SACKETT STREET from 46th St. to 43rd St.,	
42nd STREET from Roosevelt Av. to Polk Av.,	
41st STREET from Roosevelt Av. to Polk Av.,	
40TH STREET from Roosevelt Av. to Polk Av., and in	
JUNCTION AVENUE from Roosevelt Av. to Polk Av., Second Ward	15,800.00
SANFORD AVENUE from Forbes (18th) St. to Gerold (19th) St., and in	
GEROLD (19th) STREET from Sanford Av. to Lucerne Pl., Third Ward	2,900.00
7th AVENUE from Pierce Av. to Graham Av., and in	
PIERCE AVENUE from 6th Av. to 8th Av., and from 9th Av. to Steinway Av., First Ward	4,200.00

72nd AVENUE from 135th St. to 250'0" E. of 147th St., Fourth Ward	14,300.00
SYCAMORE PLACE from Maure Av. to a point about 350'0" E. of Maure Av., Fourth Ward	1,000.00
TROWBRIDGE STREET from a point about 25'0" W. of Van Alst Av. to a point about 125'0" W. of Van Alst Av., First Ward.....	300.00
TROY STREET from Jamaica Av. to Metropolitan Av., and in COTTAGE STREET from Jamaica Av. to Metropolitan Av., Fourth Ward	2,800.00
UNION HALL STREET from South St. to Cumberland St., Fourth Ward	4,400.00
VAN ALST AVENUE from Nott Av. to 14th St., First Ward.....	2,700.00
VAN WYCK AVENUE from Silkworth Av. to Jamaica Av., JAMAICA AVENUE from Van Wyck Av. to Ellsworth Av., and in METROPOLITAN AVENUE from Van Wyck Av. to Troy Av., Fourth Ward	10,700.00
WISNER PLACE from Maure Av. to Atfield Pl., Fourth ward....	1,700.00
WOODHAVEN AVENUE from Ashland St., to a point about 1400'0" N. of Ashland St., Fourth Ward	4,800.00
WOODLAND AVENUE from Huntington St. to Beaufort Av., BEAUFORT AVENUE from Boyd Av. to Hatch Av., WALKER AVENUE from Beaufort Av. to Woodhaven Av., and in WOODHAVEN AVENUE from Walker Av. to Fulton St., Fourth Ward	73,700.00
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	\$1,257,900.00

The following is a list of improvements for which final authorization was granted:

ALBURTIS AVENUE from Roosevelt Av. to Polk Av.	
FERGUSON (CEDAR) STREET from Alburtis Av. to 51st St., EDSON (PROSPECT) STREET from Alburtis Av. to 51st St., DARVALL (HIGH) STREET from Alburtis Av. to 51st St., MICKLE (WALNUT) STREET from Alburtis Av. to Brady Av., and in	
BRADY (CHESTNUT) STREET from Darvall Av. to Polk Av., Second Ward	20,600.00
ANTHON AVENUE from Halleck Av. to Van Cortlandt Av., Second Ward	600.00
ARMAND PLACE from Cypress Av. to Walter St., Second Ward..	4,300.00
ATLANTIC AVENUE, N. S., from Willard Av. to Freedom Av., and in	
HATCH AVENUE from Atlantic Av., N. S., to Fulton St., Fourth Ward	8,500.00
AUDLEY (WALNUT) STREET from St. Ann's Av. to Mayfair Road, Fourth Ward	8,200.00
BEAUFORT AVENUE from Guion Av. to Seattle St., PORTLAND AVENUE from Beaufort Av. to crown north of Beaufort Av.,	
HERALD AVENUE from Beaufort Av. to Chichester Av., and in GUION AVENUE from Beaufort Av. to Chichester Av., Fourth Ward	8,400.00
BEAUFORT AVENUE from Freedom Av. to Seattle St., Fourth Ward	2,500.00
BUCHMAN AVENUE from Myrtle Av. to Van Cortlandt Av., Fourth Ward	3,000.00

CHAUNCEY STREET from Woolsey Av. to Potter Av., First Ward	2,500.00
EMERSON STREET from Oxford Av. to Freedom Av., Fourth Ward	1,800.00
FERRISS STREET from Ferry St. to Yarmouth St., Fourth Ward..	700.00
FILLMORE AVENUE from 46th St. to Junction Av., Second Ward	4,700.00
46th STREET (NATIONAL AVENUE) from Polk Av. to Hayes Av.,	
45th STREET (DE WITT STREET) from Polk Av. to Hayes Av.,	
44th STREET (BENJAMIN STREET) from Polk Av. to Hayes Av.,	
43rd STREET (GRINNELL AVENUE) from Polk Av. to Hayes Av.,	
42nd STREET (RANDALL AVENUE) from Polk Av. to Hayes Av.,	
41st STREET (EVERGREEN AVENUE) from Polk Av. to Hayes Av.,	
40TH STREET (CLINTON AVENUE) from Polk to Hayes Av.,	
and in	
JUNCTION AVENUE from Polk Av. to Hayes Av., Second Ward..	44,300.00
48th STREET from Polk Av. to Hayes Av.,	
49th STREET from Polk Av. to Hayes Av.,	
50th STREET from Polk Av. to Hayes Av.,	
ALBURTIS AVENUE from Polk Av. to Fillmore Av., an in	
FILLMORE AVENUE from 46th St. to 48th St., Second Ward.....	11,400.00
50th STREET from Hayes Av. to crown 460'0" N. of Jackson Av.,	
49th STREET from Hayes Av. to Burnside Av.,	
48th STREET from Hayes Av. to Burnside Av.,	
47th STREET from Hayes Av. to Burnside Av.,	
46th STREET from Hayes Av. to Burnside Av.,	
45th STREET from Hayes Av. to Burnside Av.,	
44th STREET from Hayes Av. to crown about 180'0" S. of Burn-	
side Av.,	
43rd STREET from Hayes Av. to crown about 250'0" N. of Jackson	
Av.,	
42nd STREET from Hayes Av. to Jackson Av.,	
41st STREET from Hayes Av. to crown about 200'0" N. of Hayes	
Av., and in	
JACKSON AVENUE, both sides, from 43rd St. to 51st St., Second	
Ward	70,000.00
FORBES (18th) STREET from California Av. to Franconia Av.,	
Third Ward	2,500.00
FULTON PLACE from Atfield Pl. to No. Villa St., and in	
NORTH MORRIS AVENUE from Fulton Pl. to Jamaica Av.,	
Fourth Ward	13,700.00
FULTON STREET from Willard Av. to Diamond St.,	
HATCH AVENUE from Fulton St. to Ridgewood Av., and in	
DIAMOND STREET from Fulton St. to Jamaica Av., Fourth Ward	14,700.00
GRAND STREET from Queens Blvd. to L. I. R. R., Second Ward	20,500.00
GUION AVENUE from Atlantic Av., N. S., to Jamaica Av.,	
BEDFORD AVENUE from Atlantic Av., N. S., to Jamaica Av., and in	
FULTON STREET from Guion Av. to Napier Av., Fourth Ward...	17,500.00
HANCOCK STREET from Wyckoff Av. to Evergreen Branch of the	
L. I. R. R., Second Ward	700.00
HANCOCK STREET from Nott Av. to 14th St., and in	
13th and 14th STREETS from Hancock St. to the Boulevard, First	
Ward	4,300.00
HAYES AVENUE from 51st St. to 40th St., Second Ward.....	34,000.00
HAYES AVENUE from 40th St. to Junction Av., Second Ward...	2,300.00
HORTON STREET from Chicago St. to Justice St., and in	

JUSTICE STREET from Horton St. to Broadway, Second Ward...	5,000.00
HUGHES STREET from Fresh Pont Road to Sedgwick St., and in SEDGWICK STREET from Hughes St. to Sedgwick Pl., Second Ward	2,300.00
JAMAICA AVENUE from easterly side of the Rockaway Beach Branch of L. I. R. R. to Diamond St., Fourth Ward	3,500.00
JUNCTION AVENUE from Hayes Av. to Jackson Av., 39th STREET from Hayes Av. to Jackson Av., 40th STREET from Hayes Av. to Jackson Av., 41st STREET from crown about 200'0" N. of Hayes Av. to Jackson Av., and in	
JACKSON AVENUE, both sides, from Junction Av. to 43rd St., Sec- ond Ward	27,800.00
KIMBALL AVENUE from So. Curtis Av. to So. Cochran Av., and in SOUTH COCHRAN AVENUE from Liberty Av. to crown 350'0" N. of Kimball Av., Fourth Ward	6,100.00
LEGGET AVENUE from Jamaica Av. to Ashland St., ROSWELL PLACE from Leggett Av. to a point about 250'0" E. of Legget Av.,	
FARRAGUT STREET from Legget Av. to a point about 230'0" E. of Legget Av.,	
SHIPLEY STREET from Legget Av. to a point about 200'0" E. of Legget Av., and in	
STANTON STREET from Legget Av. to a point about 215'0" E. of Legget Av., Fourth Ward	10,100.00
McCOMB PLACE (WYCKOFF AVENUE) from Central Av. to Myrtle Av.,	
RIDGEWOOD PLACE from Central Av. to Copeland Av., and in COPELAND AVENUE from Ridgewood Av. to McComb Pl., Second Ward	10,900.00
McCORMICK AVENUE from Rockaway Rd. to Liberty Av., Fourth Ward	3,800.00
MASPETH AVENUE from Rust St. to Clermont Av., and in CLERMONT AVENUE from Maspeth Av. to Grand St., Second Ward	20,100.00
MAURICE AVENUE from Toledo St. to Chicago St., Second Ward	2,800.00
MATTHEW PLACE from Forbes St. to Dunsing St., DUNSING STREET from Matthew Pl. to Marston Av.	
MARSTON AVENUE from Dunsing St. to Beekman St., BEEKMAN STREET from Marston Av. to Jackson Av.,	
JACKSON AVENUE from Beekman St. to Murray St., and in ASPINWALL STREET from Jackson Av. to State St., Third Ward	43,800.00
METROPOLITAN AVENUE from Brevoort St. to Richmond Hill Av., Fourth Ward	8,300.00
MYRTLE AVENUE from Hamilton Av. to Napier (Washington) Av., Second Ward	22,200.00
NORTH VILLA STREET from Jamaica Av. to Metropolitan Av., HILLSIDE AVENUE, N. S., from No. Villa St. to Waverly Pl., WAVERLY PLACE from Jamaica Av. to Metropolitan Av., NO. CURTIS AVENUE from Jamaica Av. to Hillside Av., and in NO. WICKES STREET from Jamaica Av. to Hillside Av., Fourth Ward	25,400.00
NORTH VILLA STREET from Ridgewood Av. to Jamaica Av.,	

NORTH COCHRAN AVENUE from Ridgewood Av. to Jamaica Av., and in	
NORTH CURTIS AVENUE from Ridgewood Av. to Jamaica Av., Fourth Ward	11,500.00
NORTH WICKES STREET from Fulton Pl. to Ridgewood Av., and in	
NO. VILLA STREET from Fulton Pl. to Ridgewood Av., Fourth Ward	3,400.00
OXFORD AVENUE from a point 30'0" S. of Ashland St. to Ashland St., and in	
ASHLAND STREET from Oxford Av. to Freedom Av., Fourth Ward	2,100.00
PACKARD STREET from Greenpoint Av. to Queens Blvd., First Ward	1,200.00
PARK AVENUE from Jamaica Av. to Ferris Pl., Fourth Ward....	3,200.00
PROSPECT AVENUE from Woodbine St. to Linden St., Fourth Ward	3,400.00
REVIEW AVENUE from Greenpoint Av. to Howard St., and in	
HOWARD STREET from Review Av. to Starr St., First Ward...	2,200.00
ROOSEVELT AVENUE from Alburtis Av. to 51st St.,	
GUNTHER STREET from Alburtis Av. to 51st St., and in	
HAVEMEYER STREET from Alburtis Av. to 51st St., Second Ward	12,100.00
ST. ANN'S AVENUE from Church St. to Lefferts Av., Fourth Ward	800.00
SACKETT STREET from 46th St. to 43rd St.,	
42nd STREET from Roosevelt Av. to Polk Av.,	
41st STREET from Roosevelt Av. to Polk Av.,	
40th STREET from Roosevelt Av. to Polk Av., and in	
JUNCTION AVENUE from Roosevelt Av. to Polk Av., Second Ward	24,000.00
7th AVENUE from Pierce Av. to Graham Av., and in	
PIERCE AVENUE from 6th Av. to 8th Av. and from 9th Av. to Steinway Av., First Ward	4,600.00
72nd AVENUE from 135th St. to 250'0" E. of 147th St., Fourth Ward	19,700.00
STOOTHOFF AVENUE from Jamaica Av. to Brandon Av., Fourth Ward	900.00
SYCAMORE PLACE from Maure Av. to a point 350'0" E. of Maure Av., Fourth Ward	1,600.00
VAN WYCK AVENUE from Atlantic Av. to Silkworth Av.,	
SILKWORTH AVENUE from Van Wyck Av. to Ellsworth Av.,	
LESTER AVENUE from Silkworth Av. to Ridgewood Av., and in	
ELLSWORTH AVENUE from Silkworth Av. to Jamaica Av., Fourth Ward	16,700.00
VAN WYCK AVENUE from Silkworth Av. to Jamaica Av.,	
JAMAICA AVENUE from Van Wyck Av. to Ellsworth Av., and in	
METROPOLITAN AVENUE from Van Wyck Av. to Troy Av., Fourth Ward	16,300.00
WOODHAVEN AVENUE from Ashland St. to a point 1400'0" N., Fourth Ward	4,900.00
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	\$622,400.00

Bids were opened for the following contracts during 1917:

Contract Price

BURNSIDE AVENUE from 45th St. to 49th St.,	
46th STREET from Astoria Av. to Burnside Av.,	
47th STREET from Astoria Av. to Burnside Av., and in	
48th STREET from Astoria Av. to Burnside Av., Second Ward.....	8,617.30
KINGSLAND AVENUE from Way Av. to Luydig Pl.,	
LOUONA AVENUE from Kingsland Av. to Roosevelt Av., and in	
46th STREET from Roosevelt Av. to Polk Av., Second Ward	16,406.81
BENEDICT AVENUE from Ferris St. to Ashland St., Fourth Ward	1,354.00
HATCH AVENUE from Chichester Av. to Atlantic Av., Fourth	
Ward	1,390.20
ANABLE AVENUE from Packard St. to Bliss St., First Ward.....	2,646.15
46th STREET (NATIONAL AVENUE) from Polk Av. to Hayes Av.,	
45th (DE WITT) STREET from Polk Av. to Hayes Av.,	
44th (BENJAMIN) STREET from Polk Av. to Hayes Av.,	
43rd STREET (GRINNELL AVENUE) from Polk Av. to Hayes Av.,	
42nd STREET (RANDALL AVENUE) from Polk Av. to Hayes Av.,	
41st STREET (EVERGREEN AVENUE) from Polk Av. to Hayes Av.,	
40th STREET (CLINTON AVENUE) from Polk Av. to Hayes Av., and in	
JUNCTION AVENUE from Polk Av. to Hayes Av., Second Ward..	46,830.76
HUGHES STREET from Fresh Pond Road to Sedgwick St., and in	
SEDGWICK STREET from Hughes St. to Sedgwick Pl., Second	
Ward	2,809.00
ARMAND PLACE from Cypress Av. to Walter St., Fourth Ward..	4,596.50
MAURICE AVENUE from Toledo St. to Chicago St., Second Ward	2,321.70
McCOMB PLACE (WYCKOFF AVENUE) from Central Av. to	
Myrtle Ave.,	
RIDGEWOOD PLACE from Central Av. to Copeland Av., and in	
COPELAND AVENUE from Ridgewood Av. to McComb Pl., Fourth	
Ward	12,219.36
BEAUFORT AVENUE from Guion Av. to Seattle St.,	
PORTLAND AVENUE from Beaufort Av. to crown N. of Beaufort	
Av.,	
HERALD AVENUE from Beaufort Av. to Chichester Av., and in	
GUION AVENUE from Beaufort Av. to Chichester Av.,	
Fourth Ward	8,417.45
STOOTHOFF AVENUE from Jamaica Av. to Brandon Av., Fourth	
Ward	905.20
ATLANTIC AVENUE, N. S., from Willard Av. to Freedom Av., and	
in	
HATCH AVENUE from Atlantic Av., N. S., to Fulton St., Fourth	
Ward	9,092.10
EMERSON STREET from Oxford Av. to Freedom Av., Fourth	
Ward	1,750.50
Receiving basin on S. W. corner of GRAHAM and HAMILTON	
STREET, First Ward	439.50
Receiving basin on easterly corner of PARK PLACE and PLEASURE	
AVENUE, Fourth Ward	342.00
Receiving basin on easterly corner of MILL STREET and FRANK-	
LIN STREET, First Ward.....	352.50
Receiving basins on N. & E. corners of MADISON STREET and	
WOODWARD AVENUE, Second Ward	585.00

Receiving basin at N. E. corner of SEDGWICK STREET and CATALPA AVENUE, Second Ward	297.50
Receiving basin on N. W. cor. METROPOLITAN AVENUE and BREVOORT STREET, Fourth Ward	300.00
COLLINS AVENUE from Mt. Olivet Av. to Adriatic St., ADRIATIC STREET from Collins Av. to Fresh Pond Road, and in FRESH POND ROAD from Mt. Olivet Av. to Woodbine St., Fourth Ward	143,030.79
HULL AVENUE from Maurice Av. to Willow Av., WILLOW AVENUE from Jay Av. to Grand St., HULL AVENUE from Willow Av. to Hamilton Pl., HAMILTON PLACE from Hull Av. to Grand St., and in GRAND STREET from Hamilton Pl. to Monteverde Av., Second Word	76,746.50
Temporary automatic electric pumping stations at Thrall Av. and Beaufort Av., Fourth Ward	12,473.00
48th STREET from Polk Av. to Hayes Av., 49th STREET from Polk Av. to Hayes Av., 50th STREET from Polk Av. to Hayes Av., ALBURTIS AVENUE from Polk Av. to Fillmore Av., and in FILLMORE AVENUE from 46th St. to 48th St., Second Ward...	11,197.62
PARK AVENUE from Jamaica Av. to Ferris Pl., Fourth Ward....	3,099.65
FULTON STREET from Willard Av. to Diamond St., HATCH AVENUE from Fulton St. to Ridgewood Av., and in DIAMOND STREET from Fulton St., to Jamaica Av., Fourth Ward	14,422.15
FOREST PARKWAY from Jamaica Av. to Ashland St., FERRY STREET from Jamaica Av. to Ashland St., and in ASHLAND STREET from Forest Parkway to Ferry St., Fourth Ward	15,398.70
HANCOCK STREET from Wyckoff Av. to Evergreen Branch of the Long Island Railroad, Fourth Ward	809.50
ALBURTIS AVENUE from Roosevelt Av. to Polk Av., FERGUSON (CEDAR) STREET from Alburdis Av. to 51st St., EDSON (PROSPECT) STREET from Alburdis Av. to 51st St., DARVALL (HIGH) STREET from Alburdis Av. to 51st St., MICKLE (WALNUT) STREET from Alburdis Av. to Brady St., and in	
BRADY (CHESTNUT) STREET from Darvall Av. to Polk Av., Second Ward	20,810.30
BEAUFORT AVENUE from Freedom Av. to Seattle St., Fourth Ward	2,378.20
Park inlet basin on N. E. cor. BEACH 130th STREET and NEWPORT AVENUE, Fourth Ward	200.50
Park inlet basins on BEACH 117th STREET (6th Av.) on the S. E. and S. W. cors. of Rockaway Beach Boulevard and the N. W. and S. W. cors. of Newport Av., Fifth Ward.....	1,966.00
LEGGET AVENUE from Jamaica Av. to Ashland St., ROSWELL PLACE from Leggett Av. to a point about 250'0" E. of Legget Av.,	
FARRAGUT STREET from Legget Av. to a point about 230'0" E. of Legget Av.,	
SHIPLEY STREET from Legget Av. to a point about 200'0" E. of Legget Av., and in	
STANTON STREET from Legget Av. to a point about 215'0" E. of Legget Av., Fourth Ward	10,243.80

Temporary drain in 72nd AVENUE from 135th St. to 250'0" E. of 147th St., Third Ward	24,135.00
Overflow pipe line, gate and connection to well at ELMHURST DISPOSAL PLANT, Second Ward	3,396.00
HANCOCK STREET from Nott Av. to 14th St., and in 13th and 14th STREETS from Hancock St. to the Boulevard, First Ward	5,770.00
CHAUNCEY STREET from Woolsey Av. to Potter Av., First Ward	3,076.90
REVIEW AVENUE from Greenpoint Av. to Howard St., and in HOWARD STREET from Review Av. to Starr St., First Ward...	3,143.00
PACKARD STREET from Greenpoint Av. to Queens Blvd., First Ward	1,360.00
PROSPECT AVENUE from Woodbine St. to Linden St., Second Ward	3,477.10
HAYES AVENUE from 51st St. to 40th St., Second Ward	35,092.40
50th STREET from Hayes Av. to crown 460'0" N. of Jackson Av.,	
49th STREET from Hayes Av. to Burnside Av.,	
48th STREET from Hayes Av. to Burnside Av.,	
47th STREET from Hayes Av. to Burnside Av.,	
46th STREET from Hayes Av. to Burnside Av.,	
45th STREET from Hayes Av. to Burnside Av.,	
44th STREET from Hayes Av., to crown about 180'0" S. of Burnside Av.,	
43rd STREET from Hayes Av. to crown about 250' 0" N. of Jackson Av.,	
42nd STREET from Hayes Av. to Jackson Av.,	
41st STREET from Hayes Av. to crown about 200'0" N. of Hayes Av., and in	
JACKSON AVENUE, both sides, from 43rd St. to 51st St., Second Ward	71,939.35
AUDLEY (WALNUT) STREET from St. Ann's Av. to Mayfair Rd., Fourth Ward	8,448.40
FERRISS STREET from Ferry St. to Yarmouth St., Fourth Ward..	775.20
ST. ANN'S AVENUE from Church St. to Lefferts Av., Fourth Ward	907.00
JAMAICA AVENUE from easterly side of the Rockaway Beach Branch of L. I. R. R. to Diamond St., Fourth Ward.....	4,862.50
KIMBALL AVENUE from So. Curtis Av. to So. Cochran Av., and in SO. COCHRAN AVENUE from Liberty Av. to crown 350'0" N. of Kimball Av., Fourth Ward	6,193.22
VAN WYCK AVENUE from Atlantic Av. to Silkworth Av.,	
SILKWORTH AVENUE from Van Wyck Av. to Ellsworth Av.,	
LESTER AVENUE from Silkworth Av., to Ridgewood Av., and in ELLSWORTH AVENUE from Silkworth Av. to Jamaica Av., Fourth Ward	16,230.40
Receiving basins on NELSON (NOTT) AVENUE:	
N. E. corner of Van Buren St.,	
N. E. corner of Lowery St.,	
N. E. corner of Bragaw St.,	
S. E. and S. W. corners of Van Pelt St., First Ward.....	1,479.95
ANTHON AVENUE from Halleck Av. to Van Cortland Av., Second Ward	624.00
BUCHMAN AVENUE from Myrtle Av. to Van Cortland Av., Fourth Ward	4,455.00

HORTON STREET from Chicago St., to Justice St., and in JUSTICE STREET from Horton St. to Broadway, Second Ward..	6,872.15
FILLMORE AVENUE from 46th St. to Junction Av., Second Ward	5,006.70
JUNCTION AVENUE from Hayes Av. to Jackson Av., 39th STREET from Hayes Av. to Jackson Av., 40th STREET from Hayes Av. to Jackson Av., 41st STREET from crown about 200'0" N. of Hayes Av., to Jackson Av., and in	
JACKSON AVENUE, both sides, from Junction Av. to 43rd St., Second Ward	31,417.25
SACKETT STREET from 46th St. to 43rd St., 42nd STREET from Roosevelt Av. to Polk Av., 41st STREET from Roosevelt Av. to Polk Av., 40th STREET from Roosevelt Av. to Polk Av., and in	
JUNCTION AVENUE from Roosevelt Av. to Polk Av., Second Ward	21,605.41
FORBES (18th) STREET from California Av. to Franconia Av., Third Ward	2,464.00
GUION AVENUE from Atlantic Av., N. S., to Jamaica Av., BEDFORD AVENUE from Atlantic Av., N. S., to Jamaica Av., and in	
FULTON STREET from Guion Av. to Napier Av., Fourth Ward..	15,556.35
NO. VILLA STREET from Jamaica Av. to Metropolitan Av., HILLSIDE AVENUE, N. S., from No. Villa St. to Waverly Pl., WAVERLY PLACE from Jamaica Av. to Metropolitan Av., NO. CURTIS AVENUE from Jamaica Av. to Hillside Av., and in	
NO. WICKES STREET from Jamaica Av., to Hillside Av., Fourth Ward	27,642.50
FULTON PLACE from Atfield Pl. to No. Villa St., and in NO. MORRIS AVENUE from Fulton Pl. to Jamaica Av., Fourth Ward	12,808.45
NO WICKES STREET from Fulton Pl. to Ridgewood Ave., and in NO. VILLA STREET from Fulton Pl. to Ridgewood Av., Fourth Ward	3,115.35
MYRTLE AVENUE from Hamilton Av. to Napier (Washington) Av., Fourth Ward	21,766.50
Receiving basins on GLASSER STREET at S. E. corner of Wilton Av. and S. E. corner of Sandol St., Second Ward.....	795.00
METROPOLITAN AVENUE from Brevoort St. to Richmond Hill Av., Fourth Ward	8,531.63
WOODHAVEN AVENUE from Ashland St. to a point about 1400'0" N. of Ashland St., Fourth Ward	7,349.00
SEVENTH AVENUE from Pierce Av. to Graham Av., and in PIERCE AVENUE from 6th Av. to 8th Av., and from 9th Av. to Steinway Av., First Ward	3,871.20
MASPETH AVENUE from Rust St. to Clermont Av., and in CLERMONT AVENUE from Maspeth Av. to Grand St., Second Ward	20,122.90
HAYES AVENUE from 40th St. to Junction Av., Second Ward...	2,151.60
ROOSEVELT AVENUE from Alburdis Av. to 51st St., GUNTHER STREET from Alburdis Av. to 51st St., and in HAVEMEYER STREET from Alburdis Av. to 51st St., Second Ward	11,470.34
MATTHEW PLACE from Forbes St. to Dunsing St., DUNSING STREET from Matthew Pl. to Marston Av.,	

MARSTON AVENUE from Dunsing St. to Beekman St., BEEKMAN STREET from Marston Av. to Jackson Av., JACKSON AVENUE from Beekman St. to Murray St., and in ASPINWALL STREET from Jacksonville Av. to State St., Third Ward	47,131.65
NORTH VILLA STREET from Ridgewood Av. to Jamaica Av., NO. COCHRAN AVENUE from Ridgewood Av. to Jamaica Av., and in NO. CURTIS AVENUE from Ridgewood Av. to Jamaica Av., Fourth Ward	8,862.49
SYCAMORE PLACE from Maure Av. to a point 350'0" east of Maure Ave., Fourth Ward	1,466.21
MCCORMICK AVENUE from Rockaway Rd. to Liberty Av., Fourth Ward	3,850.55
OXFORD AVENUE from a point 30'0" south of Ashland St. to Ashland St., Fourth Ward	2,147.55
	<hr/> \$895,820.44

On December 31, 1917, there were in the Borough of Queens a total number of miles of brick and concrete and pipe sewers, receiving basins and sewage purification plants, as follows:

62.085 miles of Brick and Concrete Sewer
284.099 miles of Pipe Sewers
3,718 Receiving Basins
2 Sewage Purification Plants

DRAINAGE PLAN REPORT, 1917

<i>Title</i>	<i>Sent to Bd. of E. and A.</i>	<i>Approved by Bd. of E. and A.</i>	<i>Area in Acres</i>	<i>Remarks</i>
3-H	June 28, 1917	July 19, 1917	430	Complete System
22	Mar. 19, 1917		770	Complete System
28	Feb. 19, 1917		1400	Complete System
29-A and Part of 29	June 28, 1917		52	Complete System
Flushing—Black Stump	Mar. 23, 1917		6500	Trunks only
40-D (Revised)	Jan. 29, 1917	Feb. 2, 1917	1680	Complete System
Beaver Creek Plan	Nov. 22, 1916	May 25, 1917	890	Drain
22, 28 and 7 (so called 12th St. Trunk)	Nov. 13, 1917	Nov. 16, 1917	3800	Trunks only
72	Mar. 19, 1917		10	Complete System
Part of 10-A	Mar. 6, 1917	Mar. 30, 1917	45	Complete System
107 and 10-A	Sept. 15, 1917	Oct. 10, 1917	135	Complete System
1010	June 29, 1917	July 19, 1917	65	Complete System
1011 and Part of 28 and 3-H	Mar. 28, 1917		15	Complete System
1012	Dec. 18, 1917		14	Complete System
Corona Int. and Trunks in 24	Aug. 4, 1917		48	Trunks only
Corona Int. and Trunks in 26	June 28, 1917		3500	Trunks only
204	Mar. 6, 1917	May 11, 1917	400	Complete System
207	Dec. 6, 1917	Jan. 19, 1917	60	Complete System
208	Mar. 6, 1917	Oct. 19, 1917	5	Complete System
2112	Sept.		13	Complete System

21 ¹⁹ and Part of 23	Apr. 18, 1917	June 22, 1917	260	Complete System
24 ⁸	Mar. 9, 1916	June 8, 1917	5	Complete System
24 ¹¹	Feb. 10, 1917	May 11, 1917	150	Complete System
24 ¹³	Jan. 12, 1917	June 29, 1917	20	Complete System
24 ¹⁵	Jan. 6, 1917	Jan. 19, 1917	12	Complete System
24 ¹⁶ -27-A ³	Sept. 15, 1917		180	Complete System
27 ¹	July 19, 1917	Aug. 22, 1917	37	Complete System
27 ²	Nov. 13, 1917	Nov. 16, 1917	5	Complete System
27-A ² -24 ¹⁴	Dec. 6, 1916	Mar. 2, 1917	20	Complete System
40-A ¹²	Feb. 19, 1917	Mar. 16, 1917	40	Complete System
40-A ¹³ and 40-B ¹⁵	Dec. 6, 1916	Dec. 14, 1917	20	Complete System
40-Ab ¹	May 2, 1916	Apr. 27, 1917	26	Complete System
40-Ab ²	June 30, 1917	Nov. 2, 1917	32	Complete System
40-Ab ⁴ and 40-Aa ¹	Mar. 26, 1917	Apr. 27, 1917	100	Complete System
40-B ¹³	May 3, 1917	July 19, 1917	30	Complete System
40-B ¹⁷ and 40-C ⁷	Apr. 30, 1917	June 29, 1917	45	Complete System
40-D ³ and 40-B ¹⁸	Nov. 13, 1917		62	Complete System
40-E ⁷ and 40-A ¹⁴	June 28, 1917		75	Complete System
40-E ⁸ and 40-A ¹⁵	Sept. 22, 1917		2	Complete System

Extensive studies have been made of the Rockaways and the tributary territory to the north of Jamaica Bay, involving an area of 3,500 acres.

Nine new areas were submitted to the Board of Estimate and Apportionment and four adopted.

Thirty-one amendments were submitted to the Board of Estimate and Apportionment and 22 adopted.

Report of the work accomplished in the Chemical and Physical Laboratory of the Borough of Queens during the year 1917.

Tests of paving pitch	22
Tests on sand	60
Tests on asphalt block	22
Tests on wood block	32
Tests on lime stone dust	11
Tests on asphaltic cement	12
Tests on sheet asphalt	67
Tests on asphaltic concrete	116
Tests on light road oil No. 4	63
Tests on heavy road oil No. 6	77
Tests on cement	247
Tests on fuel oil	10
Analyses of lime for use in sewage disposal plants.....	28
Analyses of liquid soap for use in public buildings and offices.....	1
Phenol Disinfectant for use in Public Buildings and in the Department of Street Cleaning	7
Analyses of raw linseed oil	5
Analyses of lamp black pigment	2
Analyses of Vermillion pigment	1
Analyses of turpentine	5
Analyses of white lead	1
Analyses of machine oil	1
Analyses of tarvia, a resurfacing material	54
Analyses of creosoting oil	1
Sanitary and chemical water analyses	6
Analyses of varnish	1
Analyses of Japan Dryer	1

The laboratory force consisted of one Chemist in charge, one Assistant Chemist, one Cement Tester and one Laborer.

This is the fourth year the laboratory has been in operation and it has made possible the prompt chemical and physical analysis of the supplies purchased by the Borough for use in its various Departments, such as Public Buildings and Offices, Street Cleaning, Highways and Sewers.

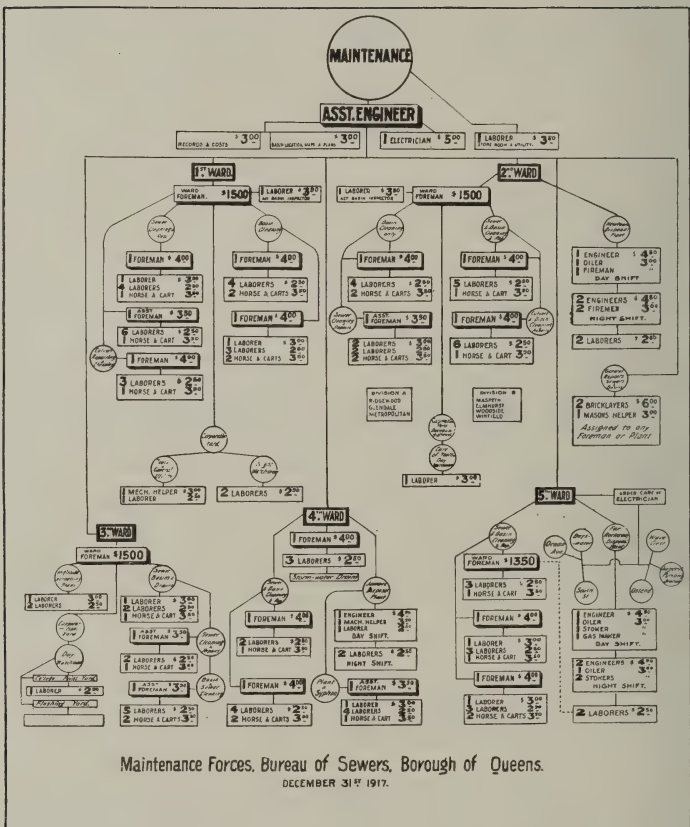
It has also enabled us to exercise the closest scrutiny of all the materials used in the construction of highways and sewers to insure their complying with the standard specifications. The fact that the contractors know an analysis is to be made on all materials, prevent them from substituting inferior grades of goods.

The importance of good roads to the development of Queens needs no argument and the only way to insure the best roads is to make certain that only the highest grade of materials enter into their construction, also to make sure that the work is done in the best possible manner, but that comes under the jurisdiction of the Engineers.

Another factor of importance is the time saved in having analysis made and keeping in close contact with the work. If anything is found that needs attention, the Engineer in Charge can be notified immediately and the work stopped, or the necessary changes made, saving the expense to the contractor of having to remove the inferior material after it has been put into the construction and thereby delaying the contract.

Our experience has proven that however willing those in charge of the different organizations doing work under contract in the Borough may be to conform to the requirements of the specifications, the work has not been entirely satisfactory, unless the work is carefully checked from time to time and in few cases it has been necessary to constantly check their work.

BUREAU OF SEWERS



BUREAU OF SEWERS

ANNUAL REPORT FOR THE YEAR ENDED DECEMBER 31. 1917

SEWER MAINTENANCE DIVISION

ORGANIZATION CHART

The organization of the sewer maintenance forces is shown in the accompanying diagram, indicating by wards the distribution of forces employed on the maintenance of sewers, basins and drains, and the operation of sewage pumping stations and disposal plants.

DUTIES AND FUNCTIONS

The maintenance division is responsible for the care of existing sewers and drainage systems, and the operation of disposal plants and pumping stations. This work comprises the cleaning, repair and reconstruction of sewers, manholes, catch basins, culverts and open drains, and the repair and renewal of equipment and buildings, as well as the maintenance of pumping and disposal plants; the drawing of requisitions for materials and apparatus and the preparation of open market contracts for repair work; the investigation and report on sewer complaints, and records of work and costs.

SUMMARY OF YEAR'S WORK

The character and amount of work performed during the year is shown in the following table.

STATEMENT OF WORK PERFORMED BY THE MAINTENANCE DIVISION OF THE BUREAU OF SEWERS, BOROUGH OF QUEENS,
DURING THE YEAR ENDED DECEMBER 31, 1917

	Quarter Ending Mar. 31, 1917	Quarter Ending June 30, 1917	Quarter Ending Sept. 30, 1917	Quarter Ending Dec. 31, 1917	Totals
Linear feet sewer cleaned	1,074,905	943,805	900,745	914,790	3,834,245
Number of manholes cleaned	4,964	3,528	4,220	4,287	16,999
Number of loads removed, sewers	1,446	1,674	1,372	1,186	5,678
Number of basins cleaned	2,131	2,738	2,537	2,149	9,555
Cubic yards removed	2,166	3,103	2,830	2,826	10,925
Number of loads removed, basins	3,105	3,549	3,139	2,509	12,305
Linear feet of drains and culverts cleaned.	80,205	102,889	92,564	108,590	384,157
Number of loads removed, drains	769	....	856	1,223	2,848
Number of basins relieved	9,275	1,735	....	6,116	17,126
Number of basins repaired	12	22	14	37	85
Number of basins built	3	2	3	2	10
Number of manholes built .....	....	4	5	....	9
Number of manhole covers replaced:					
24½"	3	....	....	....	3
24"	33	20	12	18	83
23½"	1	4	2	6	13
23"	1	....	7	....	8
22"	1	2	1	....	4
Linear feet of sewer repaired .....	....	61	110	66	237
Number of loads of snow from basins .....	....	....	....	1,414	1,414
Number of gallons sewage pumped and treated:					
Newtown	69,550,000	67,880,000	91,375,000	94,640,000	323,445,000
Far Rockaway	107,381,000	121,758,000	143,452,000	80,887,000	453,476,000
Jamaica	336,375,000	320,375,000	369,628,000	353,131,000	1,379,509,000

The following table shows a comparison of Cost Figures for Five Years from 1913 to 1917 inclusive.

	BASIN CLEANING				
	1913	1914	1915	1916	1917
No. basins cleaned..	9,910	9,328	10,029	10,210	9,555
Loads removed.....	10,775	10,291	10,801	13,124	12,305
Cubic yards removed	10,959	9,827	11,842	13,735	10,925
Cost per cu. yd.	\$2.37	\$2.35	\$2.27	\$2.11	\$2.78
Total cost	\$25,857.00	\$23,147.00	\$26,834.12	\$29,002.00	\$29,400.00

	SEWER CLEANING				
	1913	1914	1915	1916	1917
No. miles sewer cleaned	415	570	704	783	727
No. manholes cleaned	11,450	16,385	18,574	18,594	16,999
Cost per mile.....	\$72.40	\$46.00	\$37.42	\$31.22	\$35.21
Total cost	\$30,054.00	\$26,190.00	\$26,342.31	\$24,446.00	\$25,598.00

INSPECTION METHODS

General inspection work in this Bureau is one of the functions of our Ward Foremen who with intimate knowledge of sewer conditions in their own sections, can intelligently distribute their working gangs to anticipate sewer trouble. This knowledge gained by experience with any underground system suggests the advantage of permanency in these assignments, particularly where the systems are irregularly constructed or inadequate. The Ward Foremen also investigate and report on complaints.

RECORDS

The gang foremen submit time sheets and a weekly summary, at the end of each week, and also a work sheet for each day, showing the material used, time consumed and force employed on all work performed; one work report is provided for sewer, open drain and culvert cleaning and repair, and another form for basin cleaning and repair. Another report form is used by the engineers in charge of disposal plants, giving similar information and including the volume of sewage pumped and treated, coal and other supplies consumed. All this data is summarized by one man in convenient book form at the main office, three record books being used; one for sewers and open drains, one for basins and one for plants. The basins are identified by number to avoid lengthy and ambiguous descriptions of basin locations, all foremen being provided with blue prints indicating the basin numbers. From the office record books, all quarterly and annual reports are compiled, and they also serve for convenient reference where damage claims are to be investigated. A complaint book is also kept, referring by number to reports made by foremen on each complaint. The foremen also make weekly reports for the central Stores Division on the receipt of equipment, materials and supplies at their local yards, and the distribution or consumption of these items.

FLUSHING AND CLEANING METHODS USED

No sharp distinction is made in our records between cleaning and flushing processes but credit for material removed is given only where it has to be brought to the surface and carted away. When sand or other deposit is flushed from manhole to manhole toward an outlet the amount of material so removed is not calculated. This method has been used in the Rockaway Beach section where the sewers are small and poor in construction, alignment and grade. Fortunately the length of these flat, tide-locked sewers is not excessive, since they run generally across the peninsular from the ocean to the bay.

Rods provided with screw ends and other devices for detaching rags, paper, etc., and extension shovels for digging out solid deposits are also used. Roots of

trees clogging sewers in some of the suburban sections have been removed by means of cleaning machines using the principle of revolving cutting blades driven by water pressure from an attached fire hose. Large sewers are cleaned with trip-bottom steel buckets holding about $\frac{1}{5}$ of a cubic yard dragged in the sewer and lifted through a manhole to a cart by a gasoline driven hoist.

BASIN CLEANING

It has often been suggested that the method of cleaning storm-water basins and records of cost on this work, should be put on a common basis for the whole city, for comparison, and the unit cost standardized as nearly as possible. Since the size of basins vary, as well as the distance from each basin to the nearest dump, the unit that naturally suggests itself is the yard-mile, i. e. the average cost of removing a yard of material and carting it one mile. The chief obstacle in the way of adopting this unit, however, in the Borough of Queens is that a fixed length of haul from each basin cannot be predetermined for in many undeveloped sections we use the nearest dump available, and the cart driver cannot be relied upon to estimate the length of haul or even record the location of the temporary dump, assuming that the haul could be measured on an office map later. Owners of low-lying lots will often accept or reject basin material on its appearance, depending on whether it be clean sand or dark organic matter from improved pavements. Then again there are some large and deep leaching basins in unimproved sections whose cost of cleaning per yard cannot be compared to the cost of lifting material from shallower basins. Even the more modern styles of basins differ widely in the facility of cleaning; those cleaned through wide gutter gratings being more easily cleaned than basins entered through a 24-inch circular opening on top. Improved basin designs have been developed more on consideration of good appearance and convenience at street crossings, than on the cost of cleaning.

Public dumps in this borough are gradually decreasing in number and the increasing length of haul is beginning to affect our unit costs. In only two or three of the wards are special basin cleaning gangs detailed exclusively to this work as shown by the force chart, the gangs in other sections being employed as needed on all classes of sewer maintenance work.

GENERAL REPAIR WORK

Repairs on sewers, manholes, and basins are made in most all wards by gangs employed on general sewer cleaning. Two bricklayers and a mason's helper are employed on general repairs and reconstruction and the raising or lowering of manholes as necessitated by regrading done under highway maintenance. They also make the necessary repairs and alterations at the disposal plants and pumping stations. Unit costs on such repair work can hardly be made comparative since the repair on one manhole may involve only one or two courses of brick, while on another it may represent the entire reconstruction of an old manhole or basin which has fallen down, and which may be of any depth from 2 to 15 feet. The cost of sewer repair will also vary with the depth of excavation ranging from 2 feet in the Rockaways to 20 feet or more in other sections, and also with varying ground water conditions, tides, etc., these variations often having more influence on the unit cost per foot than the size of the sewer.

JAMAICA DISPOSAL PLANT

The Jamaica Disposal Plant, located at the northeast corner of Stanley and Atfield Avenue, as laid down on the adopted street map, is intended to clarify the sewage of the Fourth Ward, before discharge into an open flume and Doughty Creek to Jamaica Bay.

The process employed is sedimentation of the suspended solids in a series of tanks, aided by the addition of lime solution. There are two sets of tanks which

are used alternately, to provide for periodic cleaning by removal of the accumulated solids. The tanks by virtue of their larger cross-sectional area are intended to slow up the velocity of the sewage through the plant, to allow time for the solids to settle out, but as the accumulation of these solids increases, the capacity of the tanks is proportionately reduced, and the sewage flows through the plant at too high a rate to permit clarification. Moreover some of the deposit already settled out is again washed out and carried to the Bay. The septic action in such deep deposits produces gas which lifts the solids so that they more readily escape with the sewage which flows over it.

This describes the present condition at the Jamaica Plant, which results from the very restricted area surrounding the plant, available for the storage and drying of this material.

This Bureau has recommended the purchase of additional land, which if acquired will provide for cleaning the tanks more frequently and more conveniently, and even permit the use of both sets of tanks simultaneously, thus doubling the capacity of the plant for purification. To avoid encroachment on adjoining private property, it is at present necessary to tolerate excessive accumulations in the tanks, which in consequence are not cleaned oftener than about four times a year, while the period should not exceed ten days.

The effect of the conditions mentioned above, on the sanitary aspect of Doughty Creek is evident. Representatives of the Department of Health have expressed a willingness to assist in the acquisition of the necessary land.

Another improvement desired at this plant is the repair or reconstruction of the outlet flume to Doughty Creek. This is an old timber flume built with the plant in 1902. It has broken down in many places and has been temporarily repaired but the piling has nearly rotted away. Ditches from adjoining land discharge into the flume at various points, but at high tides the water backs up on the meadow land through these same inlets or over the sides of the flume.

It was recommended that sufficient funds be appropriated in the 1918 budget to rebuild this flume in reinforced concrete with tide gates at the ditch inlets to stop the complaints we have been receiving through the Board of Health, arising from these conditions, but it was finally thought best to spare the expense at this time and depend on getting a better effluent, through the acquisition of needed land, for improvement of conditions along the outlet to Jamaica Bay.

With the construction of the Richmond Hill sewers the flow through this plant has been nearly doubled. As the sewage flows through the plant by gravity no increase in pumping equipment is involved, but the amount of sludge intercepted is greatly increased and the sedimentation tanks should be cleaned much more frequently.

NEWTOWN DISPOSAL PLANT

At the Newtown Disposal Plant, located on Queens Boulevard, Elmhurst, the sewage is still being treated by the Landreth Electro-chemical process.

The machine providing for the electrolysis of the sewage, was loaned by Mr. C. P. Landreth of Philadelphia, in March, 1915.

The sewage is lifted from the receiving well by centrifugal pumps and forced directly through the machine and up to the sedimentation tanks. In the machine it is subjected to agitation by revolving paddles and electrolytic action and lime is added just as the sewage enters the tanks. Although the apparatus is in obvious need of repair the results produced are far better than those obtained under the old process. The sewage in the sedimentation tanks under the old process was dark and turbid, with strong septic action in the precipitated sludge, and heavy scum on the surface, and the disposition of the sludge by burning with coal under the boilers was very laborious and offensive. All these conditions have disappeared under the present process and the inoffensive sludge is discharged directly into Horse Brook without nuisance.

The lime is used in amounts ranging from $7\frac{1}{2}$ to $9\frac{1}{2}$ grains per gallon of

sewage. The electrolytic action is found to reduce the amount of lime and also the sedimentation period necessary to produce the same degree of clarification obtainable with lime alone, and the bactericidal effect is shown by the absence of septic action.

However, if the process is to be continued, the apparatus should be completely overhauled and repaired.

FAR ROCKAWAY DISPOSAL PLANT

The Far Rockaway Disposal Plant was built by the Village of Far Rockaway about 1897 and is located at the foot of Leland Avenue near Sheridan Boulevard. Three Shone pneumatic ejector stations were built at the same time to lift sewage from the low-lying sections to the gravity sewers, whence it flows to the receiving well at the main plant. From the receiving well it is pumped again to the settling tank and then flows to the head of Jamaica Bay at a point not more than 200' from the plant.

The equipment of the plant consists of two Snow Plunger Sewage Pumps with a daily rated capacity of one million gallons each, and three Ingersoll-Rand air compressors supplying air to the outlying pneumatic sewage ejectors and also lime mixing and sludge pump engines, all of which are driven by steam generated at the plant. In addition to this, two six-inch centrifugal sewage pumps, driven by commercial electricity, were installed as auxiliary pumping units, and during periods of heaviest flow all four pumps have been found necessary.

Two additional automatic pumping stations have more recently been built to raise low level sewage to the gravity sewer. They are operated by commercial electric power. One of these stations was provided for the new system of sewers in Wave Crest and the other, at Ostend, was built to relieve the pneumatic station on South Street.

These outlying stations receive regular attention by the bureau electrician, who is also responsible for the proper operation of the three pneumatic stations, as well as the Neponsit Plant and general repairs to the electrical equipment at the other disposal plants. He is provided with an automobile to cover this extensive territory, and is considered on duty at all times.

The process employed for sewage treatment at the main plant is the same at the Jamaica Plant, and the arrangement of the settling tanks is similar though the capacity is much smaller.

It is likely that the present plant will later be continued only as a pumping plant in the new general scheme for improved drainage in this section and therefore it is deemed inadvisable at present to expend much money on the plant for purification purposes.

NEPONSI T PLANT

Before acceptance of the Neponsit sewer system with its septic tanks a thorough examination was made and the system was found to be well designed and constructed. Its acceptance was influenced by the necessity of finding an outlet for the large contributions from the Neponsit Beach Hospital, since the private corporation owning the system could not be expected to bear the expense of pumping and treating this additional flow.

The sewage pumping equipment consists of two centrifugal pumps having 8" suction and 6" discharge, each vertically connected to a 15 h.p. Westinghouse electric motor, two phase 60 cycle 1,200 R.P.M., submerged in a concrete shaft in the center of the receiving well, the whole thing being covered by a frame building. A sludge pumping unit of similar type but smaller, is located at the outlet of the septic tank near the bulkhead line. The tank is built in three separate compartments, each 18 feet wide and 93 feet long with an average depth of five feet. The capacity of each is 62,700 gallons, and as the normal daily flow has been only about half this, the sewage is retained in the tank for nearly 48 hours, and relatively small quantities discharged into the bay two or three times

a day as the automatic operation of the pumps displaces the settled sewage with each new volume of raw sewage entering the tank.

OAK STREET SCREEN HOUSE

To provide temporary treatment of the sewage of the Ingleside section, Flushing, before discharge into Flushing Creek, three screens are maintained in the outlet of the 8' circular concrete sewer at the foot of Oak Street. The first screen is of iron bars spaced one and a half inches center to center, the other two are made of galvanized iron wire mesh with $\frac{3}{4}$ and $\frac{3}{8}$ inch openings respectively. They are made in two halves which together conform to the lower half of the sewer.

A small frame building over the sewer, houses hoisting and other apparatus, together with a gas burning incinerator for the screenings which are lifted from the screens below to an opening in the crown of the sewer.

This sewer outlet will ultimately be extended to Myrtle Avenue where in conjunction with another outlet the sewage will receive more adequate treatment.

The screening chamber is attended only by three laborers, one on each eight hour shift.

MISCELLANEOUS WORK

An increasing amount of work has been done toward the relief of flooded streets and property where drainage facilities are inadequate or entirely lacking. This has been accomplished by means of portable gasoline driven pumps and the relief has been particularly appreciated by the public after the unprecedented rain storms occurring in the midst of an unusually severe winter.

This pumping has been done at widely scattered points and the pumps have had to be hauled at times for great distances on their own wheel trucks over roads made unusually rough by ice and snow. The unnecessary strain and wear thus brought on the connections and adjustments of the pumping units should be avoided by shifting them from place to place on an automobile truck. The small wheel trucks on which the pumps are mounted are intended only for short shifts of a few hundred feet at a time. Longer hauls by this means waste valuable time and frequently result in a loss of bolts and other essential parts, as well as derangement of the engine adjustments. A one ton truck would provide for the distribution of several pumping outfits within a few hours. On several occasions we have had pumps operating simultaneously at three or more distant points. The Highway Bureau trucks have heretofore lent assistance when they could from their own work, but the uncertainty of this service fails to assure quick relief in emergencies. A truck would also supply a long felt need for prompt service in the hauling of granite and bluestone basin heads, and heavy cast iron gratings and manhole heads and covers to replace those broken by traffic. Such a truck would be kept in the most central yard in charge of a man trained in the operation and repair of pumping apparatus. We have had to depend too much in each emergency, on men taken from important regular duties in some of our disposal plants.

In the cleaning and repair of the siphons built by the L. I. Railroad Company under their depressed tracks at Boerum Avenue and at Murray Street, Flushing, a small centrifugal pump directly connected vertically with an Evinrude Motor-boat engine served to discharge the water from the vertical siphon shaft. These shafts are 30 feet deep and the small pumping unit was lowered gradually with the water level, but on account of the construction at Boerum Avenue the manhole head and some of the brickwork had to be removed to permit the use of even this small pump. The brick work was rebuilt to provide for a large cleaning shaft head and cover, to replace the smaller casting. This will afford easier access to the shaft in future operations.

BUREAU OF STREET CLEANING

FUNCTIONS OF BUREAU

To clean the streets paved with granite block, sheet asphalt, block asphalt, brick, Hassan and concrete.

To collect ashes, garbage, rubbish and street sweepings.

To finally dispose of ashes, garbage, rubbish and street sweepings.

To remove snow and ice from the highways of the borough.

METHODS EMPLOYED

Streets were cleaned by hand and by horse-driven sweeping machines.

Refuse was collected by laborers, horses and carts, trucks, and teams, and automobile trucks, employed by the Bureau at a specified rate per day.

Ashes were disposed of at inland dumps and on scows, and were also used for filling depressions in streets and making improvements in crosswalks.

Garbage was disposed of, at crematories, inland dumps, piggeries and scows.

Street sweepings were disposed of at inland dumps.

Rubbish was disposed of at inland dumps and crematories.

Snow and ice were disposed of at inland dumps, in the East River, Newtown Creek and sewers.

Snow and ice were removed by the regular force of the Bureau, by additional force employed by the day, and by the railway companies operating in the borough.

WORK ACCOMPLISHED

725,069,969 square yards of pavement were cleaned by hand during 1917.

709,746 cubic yards of ashes, garbage, rubbish and street sweepings collected and disposed of during 1917.

98,087 cubic yards of snow were removed by the Bureau during 1917.

1,970,728 linear feet of crosswalks cleaned during 1917.

3,369,478 linear feet of gutters cleaned during 1917.

4,674,970 square yards of streets cleaned during 1917.

FINAL DISPOSITION OF MATERIAL

Ashes, garbage, rubbish and street sweepings collected in Queens Borough during 1917 were disposed of as follows:

.816 per cent. dumped in vacant lots, streets and crosswalks.

.167 per cent. disposed of at crematories and reclaimed.

.013 per cent. dumped on scows.

.004 per cent. disposed of at piggeries.

EXTENSION OF SERVICE

Refuse-collection service was extended to all new residents of Queens Borough.

62,902 square yards of paved streets were added to the street cleaning area during 1917, as follows:

1ST WARD:

Fourth Street, from East to Van Alst Avenues.

Hoyt Avenue, from 2nd to Flushing Avenues.

Hamilton Street, from Payntar to Webster Avenues.

Fifth Avenue, from Broadway to Jamaica Avenue.

Eighth Avenue, from Washington to Pierce Avenues.

Fourteenth Avenue, from Graham Avenue to Broadway.

Sixth Avenue, from Grand to Flushing Avenues.

Van Alst Avenue, from Jackson Avenue to 4th Street.

Hunterspoint Ave., from East Avenue to Viaduct.

Nott Avenue, from Hancock Street to Van Alst Avenue.

Payntar Avenue, from Jackson Avenue to Academy Street.

2D WARD:

Cornelia Street, from Forest to Anthon Avenues.
 Hancock Street, from Wyckoff to Cypress Avenues.
 Cornelia Street, from Borough Line to Wyckoff Avenue.
 Van Cortland Street, from Myrtle to Anthon Avenues.
 Schley Street, from Edsall to Central Avenues.
 Cypress Avenue, from Cooper Avenue to Cody Street.
 DeKalb Avenue, from Onderdonk to Seneca Avenues.

3D WARD:

Tenth Street, from Avenue C to 7th Avenue.
 College Avenue, from Avenue C to N. Boulevard.
 N. Boulevard, from 13th Street to College Avenue.

CONSTRUCTION WORK

Work was commenced on the Long Island City Refuse Destructor during August, 1917. This Destructor which is to be located at Graham and Van Alst Avenues, L. I. City, is to be of one hundred ton capacity and will destroy the garbage and rubbish collected from the residents of all of Long Island City. The estimated cost of this plant including the plumbing is \$180,000.00. It is anticipated that this plant will be ready for use during 1918.

Contract was awarded for the erection of a seventy ton Refuse Destructor at 63d Street and Barbadoes Street, Arverne, during December, 1917. The contractor commenced work during December but on account of the severe weather, was unable to continue. We expect to have this plant in operation during 1918.

PROPOSED CONSTRUCTION

Site for a Refuse Destructor at 31st Road (Uhland Avenue) and 131st (Valonia) Street, 3d Ward, was acquired during 1917. It is intended to erect a Refuse Destructor of seventy ton capacity on this property. This Refuse Destructor will dispose of the garbage and rubbish collected in Flushing, College Point, Whitestone, Beechhurst, Bayside, Douglaston, Douglas Manor and Little Neck.

A site has been proposed for a Refuse Destructor for the 4th Ward, located at Church and Catherine Streets, Jamaica. When the consent of the Board of Aldermen and the Board of Estimate has been given, steps will be taken to erect a seventy ton Refuse Destructor at this place.

The tables subjoined show the force employed and the work done by this Bureau in detail.

SCHEDULE FOR SNOW REMOVAL

By Railway Companies			By Bureau of Street Cleaning		
	Sq. Yds.	Miles		Sq. Yds.	Miles
Ward 1	232,738	4.5339	Ward 1	120,737	4.946
Ward 2	262,245	5.1543	Ward 2	173,750	9.150
Ward 3	70,805	2.0000	Ward 3	53,731	2.8
Ward 4	36,822	.7854	Ward 4	104,271	5.210
Ward 5	36,025	1.0763	Ward 5	40,814	2.190
Total	638,635	13.5499	Total	493,303	24.296

Snow was displaced from approximately one hundred (100) miles of roadways by snow plows and road scrapers.

BUREAU OF STREET CLEANING

SUMMARY OF MATERIAL COLLECTED AND DISPOSED OF IN CUBIC YARDS

FOR YEAR ENDING DECEMBER 31, 1918

REFUSE DUMPED AT INLAND DUMPS

Month	Ashes	Garbage	Rubbish	Mixed Material	Ashes,				Mixed and Sweepings	Ashes and Sweepings	Material and Sweepings	Ashes and Rubbish	Garbage and Sweepings	Garbage and Mixed and Sweepings	Total
January	6,127.28	823.37	6,850.15	3,263.93	441.26	12,587.47	6,769.54	11,908.66	1,132.64	2,762.21	.....	.....	.....	.....	52,666.51
February	7,011.29	719.65	6,105.95	3,245.74	666.58	7,270.13	8,762.73	9,908.46	1,987.10	2,189.37	.....	.....	.....	.....	46,866.90
March	9,180.70	955.44	6,571.15	3,837.15	528.02	10,806.60	7,315.00	8,154.97	1,027.57	2,440.41	.....	.....	.....	.....	52,017.01
April	4,510.57	1,885.52	7,235.60	2,997.22	618.55	12,229.16	4,194.37	10,363.61	1,363.31	2,506.36	.....	.....	.....	.....	46,905.07
May	2,858.43	1,437.38	8,687.10	4,018.99	764.52	12,778.48	3,626.34	10,044.30	1,451.45	2,398.64	.....	.....	.....	.....	48,939.71
June	1,571.28	1,137.58	4,604.10	2,760.11	1,052.73	11,916.64	4,604.30	8,624.21	1,594.80	2,238.22	.....	.....	.....	.....	48,432.07
July	1,559.48	2,456.32	7,182.25	3,765.38	998.49	12,936.66	3,633.41	8,210.01	1,787.87	7,858.59	3.00	.....	.....	.....	51,327.71
August	1,813.95	2,247.37	6,437.35	3,765.38	998.49	12,936.66	3,633.41	8,210.01	1,787.87	7,858.59	3.00	.....	.....	.....	49,466.78
September	2,056.79	1,975.41	6,070.85	3,244.66	984.02	12,417.67	3,986.17	6,211.02	1,787.51	8,783.75	.....	.....	.....	.....	42,944.89
October	2,471.61	1,648.26	7,513.15	2,983.97	816.11	12,417.67	3,986.17	6,211.02	1,787.51	8,783.75	.....	.....	.....	.....	43,725.80
November	2,340.88	924.04	7,333.35	2,857.14	621.41	12,417.67	3,986.17	6,211.02	1,787.51	8,783.75	.....	.....	.....	.....	45,752.32
December	5,818.03	295.74	7,562.00	3,139.99	584.15	13,738.31	4,325.14	10,604.62	1,403.09	1,838.60	.....	.....	.....	.....	50,222.32
	49,766.98	15,531.03	87,118.32	43,919.68	9,039.88	142,150.71	65,140.40	107,795.58	16,678.34	41,778.29	3.00	19.55	578,941.76	.....	.....

Month	Ashes	Garbage	Rubbish	Mixed Material	Ashes,				Mixed and Sweepings	Ashes and Sweepings	Material and Sweepings	Ashes and Rubbish	Garbage and Sweepings	Garbage and Mixed and Sweepings	Total
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April	4,510.57	1,885.52	7,235.60	2,997.22	618.55										

BUREAU OF STREET CLEANING
DISTRIBUTION OF BUREAU FORCE AS OF DECEMBER 31, 1917

Title.	Admin. Office	Inspection	Ward 1	Ward 2	Ward 3	Ward 4	Ward 5	Total
Superintendent.....	1							1
Clerk	5							5
Stenographer and Typewriter	1							1
Storekeeper	1							1
Auto Engineman	1							1
Dump Inspector		1						1
Asst. Dump Inspector		2						2
District Superintendent			1	1	1	1	1	5
Section Foreman			5	4	3	3	1	16
Asst. Section Foreman			3	3	3	5		14
Dump Boardman			1	3	5	4		13
Stoker				4				4
Driver			1					1
Coal Passer						2	1	3
Laborer			8	10	2	9	2	31
Sweeper			68	86	28	34	14	230
Horse and Cart			32	30	26	35	4	127
Team and Truck			9	45	3	28	14	99
Stationary Engineer				1				1
	9	3	128	187	71	121	37	556

BUREAU OF STREET CLEANING
MAXIMUM FORCE EMPLOYED DURING 1917

Superintendent	1
Clerk	5
Stenographer and Typewriter	1
District Superintendent	5
Section Foreman	17
Assistant Section Foreman	16
Dump Inspector	1
Assistant Dump Inspector	2
Dump Boardman	14
Stationary Engineer	1
Automobile Engineman	1
Storekeeper	1
Stoker	4
Coal Passer	3
Sweeper	216
Laborer	32
Horse and Cart	130
Team and Truck	96
Horse and Sprinkler	3
Team and Sweeper	3

ADDITIONAL FORCE EMPLOYED ON SNOW REMOVAL

Laborers	1,315
Foreman	73
Horses and Carts	188
Teams and Trucks	417
Timekeepers	50
Teams for Snow Plows	10
Auto Trucks	6

ANNUAL REPORT

OF THE

BUREAU OF PUBLIC BUILDINGS AND OFFICES

FOR THE YEAR ENDED DECEMBER 31, 1917

ORGANIZATION CHART

PRESIDENT, BOROUGH OF QUEENS BUREAU OF PUBLIC BUILDINGS AND OFFICES

JANITORIAL AND CLEANING FORCE Foreman of Laborers	COUNTY BUILDING, JAMAICA Janitor 2 Elevators 1 Watchman 2 Female Cleaners 3 Laborers
QUEENS COUNTY COURT HOUSE Janitor 2 Engineers 1 Licensed Fireman 3 Stokers 1 Watchman 8 Female Cleaners 9 Laborers	EXECUTIVE Superintendent Chief Clerk Clerk Telephone Operator Attendant
QUEENS SUBWAY BUILDING BOROUGH HALL 1 Attendant 1 Watchman 2 Laborers	TOWN HALL, FLUSHING Janitor 1 Female Cleaner 3 Laborers
ST. MARY'S LYCEUM BUILDING Janitor 2 Laborers	MECHANICAL FORCE Foreman of Laborers 1 Electrician 1 Steamfitter 1 Plumber 1 Tinsmith 1 Granger 2 Painters 2 Carpenters 1 Mechanic's Helper 3 Laborers
TOWN HALL, NEWTOWN Janitor 1 Female Cleaner	MAGISTRATE'S COURT, FAR ROCKAWAY 1 Laborer
	INTERIOR BATH 2 Male Attendants 2 Female Attendants 2 Stokers 1 Laborer
	COMFORT STATION, JAMAICA Cared for by the employees of the Town Hall, Jamaica.

DUTIES AND FUNCTIONS OF THE BUREAU

To attend to the repairs, maintenance and cleaning of the Public Buildings and Offices of which the President of the Borough has cognizance and control; of the care and cleaning of offices leased or occupied for public purposes (unless such lease provides for repairs and janitorial services) and of the care and maintenance of Public Baths and Comfort Stations, and to provide necessary equipment, Supplies, etc.

REVIEW OF THE WORK OF THE BUREAU FOR THE YEAR 1917.

During the year 1917 the most noticeable work of the Bureau was as follows: The large Court room, Clerks' room, Judges' room, toilets, etc., used by the Magistrate's Court in the Town Hall, Flushing, has been thoroughly renovated; metal ceilings of attractive pattern were installed, partitions erected in Court Clerks' rooms, the ceilings and side walls painted and decorated, electric fixtures cleaned and renewed where required, wood work cleaned and varnished, radiators and steam pipes finished with bronze; carpets and furnishings were removed and thoroughly cleaned; this Court room is now the most commodious and completely equipped Magistrate's Court room in the Borough and compares favorably with any in the City.

During the year Revenue Bonds were issued in the sum of \$3,500.00 for the purpose of making alterations in the Queens County Court House, (second and third floors); these alterations provide Jury rooms, rooms for the attachees of the Court, cells for prisoners awaiting their appearance in the Court room and the toilet rooms, it also provides a bridge connecting the Court House with the Jail, allowing prisoners to be brought from the Jail and placed in the cells provided while awaiting trial; the work of alterations consisted of Carpentry, Mason work, Plastering, Plumbing, Steam-fitting, Electrical work, Painting and Iron and Steel work, the completed job will facilitate the efficient work of the Court.

In the Surrogate's Court room, County Building, Jamaica, canopy effect curtains of Mulberry Velvet have been installed together with French Drapery Shades with fringe and weighted tassels, hung on cornices.

Improvements have been made in the water supply at the Interior Bath whereby the assimilation of the hot and cold water has been improved.

The installation of a Copper and Glass Skylight over the Surrogate's Court room, County Building, Jamaica is a noticeable improvement.

A new steamheating boiler has been installed in the Magistrate's Court House at Far Rockaway.

BUILDINGS UNDER THE SUPERVISION OF THIS BUREAU.

Queens County Court House, Long Island City. (Owned).

Borough Hall, 2nd, 3rd and 4th Floors of the Queens Subway Building, Long Island City. (Leased).

St. Mary's Lyceum Building, Long Island City. (Leased).

Interior Bath, Long Island City. (Owned).

Town Hall, Newtown. (Owned).

Town Hall, Flushing. (Owned).

Town Hall, Jamaica. (Owned).

County Building, Jamaica, and Janitor's house in rear. (Owned).

Magistrate's Court Building, Far Rockaway. (Owned).

OPERATION AND MAINTENANCE OF PUBLIC BUILDINGS.

QUEENS COUNTY COURT HOUSE: OPERATION COST.

Salaries and wages of Janitor, Engineers, Stokers, Elevatormen, Watchman, Cleaners, Laborers and Foreman of Laborers	
Supervision	\$21,486.20
Office Supplies: Ice, \$182.40; Towels, \$42.14; other supplies, \$128.20.	353.34
Fuel Consumed	6,922.57
Janitor's Supplies and Equipment	299.87
General Plant Equipment	224.10
General Plant Supplies	15.15
Engineer's Supplies	93.65
Care and Repair of Clocks	60.00
Carting Supplies	24.00
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	\$29,478.88

MAINTENANCE COST.

Wages of Carpenters	\$ 725 00
Wages of Plumber	590.50
Wages of Steamfitter	671.00
Wages of Tinsmith	442.50
Wages of Electrician	272.30
Wages of Painters	577.50
Wages of Mechanic's Helpers	295.50

Wages of Laborers	685.71
Wages of Foreman of Laborers (Supervision)	110.80

4,370.81

Material used by Departmental Labor.....	2,437.00
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\$ 6,807.81

REPAIRS AND REPLACEMENTS BY CONTRACT.

Repairs to boiler feed pumps	\$ 96.00
Repairs to Elevators	3.60
Repairs to Pumps	98.00
Replace Plate Glass Window	6.80

\$ 204.40

Total Maintenance Cost\$ 7,012.21

ALTERATIONS: QUEENS COUNTY COURT HOUSE.

Amount Allowed	\$ 3,500.00
Expended for Labor and Material by Contract.....	\$ 1,754.52
Expended for Material used by Departmental Labor.....	1,671.83
Balance	73.65

\$3,500.00

QUEENS SUBWAY BUILDING: (Borough Hall) OPERATION COST.

Salaries and Wages of Attendant, Watchman, Laborers and Foreman of Laborers Supervision	\$ 4,458.70
Office Supplies: Ice, \$147.00; Towels, \$152.08; other Supplies, \$78.29	377.37
Janitor's and Lavatory Supplies and Equipment	101.73
Care and Repair of Clocks	84.00
Carting Supplies	24.00
General Plant Equipment	53.00

\$ 5,098.80

MAINTENANCE COST

Wages of Carpenter	\$ 702.50
Wages of Plumber	145.00
Wages of Tinsmith	15.00
Wages of Electrician	360.40
Wages of Painters	533.50
Wages of Mechanic's Helpers	67.50
Wages of Laborers	257.69
Wages of Foreman of Laborers (Supervision)	110.80

\$ 2,192.39

Material used by Departmental Labor.....	959.73
Repairs and Replacements by Contract	154.70

\$ 3,306.82

INTERIOR BATH: OPERATION COST.

Salaries and Wages of Male Attendants, Female Attendants, Tem- porary Attendants, Stokers, Laborers and Foreman of Laborers (Supervision)	\$ 6,458.45
Fuel Consumed	882.86
Janitor's Supplies and Equipment	74.86

Carting Supplies	24.00
General Plant Equipment	3.50

\$ 7,443.67

MAINTENANCE COST.

Wages of Carpenter	\$ 5.00
Wages of Plumber	148.50
Wages of Steamfitter	88.00
Wages of Tinsmith	30.00
Wages of Electrician	17.40
Wages of Painters	51.50
Wages of Mechanic's Helpers	82.50
Wages of Laborers	62.50
Wages of Foreman of Laborers (Supervision)	110.80

\$ 596.20

Material used by Departmental Labor	72.23
Repairs and Replacements by Contract	98.00

\$ 766.43

TOWN HALL, NEWTOWN: OPERATION COST.

Salaries and Wages of Janitor, Cleaner and Foreman of Laborers (Supervision)	\$ 1,801.20
Office Supplies: Ice, \$45.90; Towels, \$17.70; other Supplies, 9.00....	72.60
Janitor's Supplies and Equipment	72.74
Water Supply for Building	30.02
Carting Supplies	24.00
General Plant Equipment	2.50

\$ 2,003.06

MAINTENANCE COST.

Wages of Carpenters	\$ 120.00
Wages of Plumber	27.50
Wages of Steamfitter	57.75
Wages of Tinsmith	102.50
Wages of Electrician	32.70
Wages of Painters	371.00
Wages of Mechanic's Helper	15.00
Wages of Laborers	80.00
Wages of Foreman of Laborers (Supervision)	110.80

\$ 917.25

Material used by Departmental Labor	128.54
Repairs and Replacements by Contract	60.00

\$ 1,105.79

TOWN HALL, FLUSHING: OPERATION COST.

Salaries and Wages of Janitor, Cleaner, Laborers and Foreman of Laborers (Supervision)	\$ 4,148.70
Fuel Consumed	603.38
Office Supplies: Ice, \$62.90; Towels, \$17.70; other Supplies, \$37.63..	118.23
Janitor's Supplies and Equipment	120.00
General Plant Supplies and Equipment	53.29

Care and Repair of Clocks	36.00
Carting Supplies	24.00
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	\$ 5,103.60

MAINTENANCE COST.

Wages of Carpenter	\$ 345.00
Wages of Plumber	66.00
Wages of Steamfitter	88.00
Wages of Tinsmith	437.50
Wages of Electrician	244.36
Wages of Painters	1,086.00
Wages of Mechanic's Helper	36.00
Wages of Laborers	264.41
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 2,678.07
Material used by Departmental Labor	518.46
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	\$ 3,196.53
Repairs and Replacements by Contract	369.00
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	\$ 3,565.53

TOWN HALL, JAMAICA: OPERATION COST.

Salaries and Wages of Janitor, Male Cleaner, Female Cleaners, Laborers and Foreman of Laborers (Supervision)	\$ 3,603.70
Fuel Consumed	742.45
Office Supplies: Ice, \$64.26; Towels, \$43.26; other Supplies, \$87.30..	194.82
Janitor's Supplies and Equipment	212.05
Care and Repairs of Clocks	24.00
Carting Supplies	24.00
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	\$4,801.02

MAINTENANCE COST.

Wages of Carpenter	\$ 310.00
Wages of Plumber	115.50
Wages of Steamfitter	137.50
Wages of Tinsmith	125.00
Wages of Electrician	72.70
Wages of Painters	131.50
Wages of Mechanic's Helper	69.00
Wages of Laborers	146.63
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 1,218.63
Material used by Departmental Labor	1,750.84
Repairs and Replacements by Contract	2.25
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	\$ 2,971.72

COMFORT STATION, JAMAICA: OPERATION COST.

Foreman of Laborers (Supervision)	\$ 121.20
Carting Supplies	24.00
Water for Building	113.54
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	\$ 258.74

MAINTENANCE COST.

Wages of Carpenter	\$ 25.00
Wages of Plumber	203.50
Wages of Steamfitter	11.00
Wages of Electrician	54.80
Wages of Painters	8.00
Wages of Mechanic's Helper	117.00
Wages of Laborers	31.25
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 561.35
Materials used by Departmental Labor	54.47
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	\$ 615.82

COUNTY BUILDING, JAMAICA: OPERATION COST.

Salaries and Wages of Janitor, Elevatormen, Watchman, Cleaners, Laborers and Foreman of Laborers (Supervision)	\$ 7,128.70
Fuel Consumed	947.29
Office Supplies: Ice, \$63.21; Towels, \$39.98; other Supplies, \$78.37..	181.56
Janitor's Supplies and Equipment	312.87
Water for Building	94.56
Care and Repairs of Clocks	24.00
Carting Supplies	24.00
General Plant Supplies	17.05
General Plant Equipment	45.21
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	\$ 8,775.24

MAINTENANCE COST.

Wages of Carpenter	\$ 172.50
Wages of Plumber	60.50
Wages of Steamfitter	222.75
Wages of Tinsmith	65.00
Wages of Electrician	213.10
Wages of Painters	85.00
Wages of Mechanic's Helper	34.50
Wages of Laborers	273.75
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 1,237.90
Material used by Departmental Labor	215.05
Repairs and Replacements by Contract	1,061.70
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	\$ 2,514.65

MAGISTRATE'S COURT, FAR ROCKAWAY: OPERATION COST.

Wages of Laborer in Charge and Foreman of Laborers (Supervision)	\$ 1,033.70
Fuel Consumed	124.90
Office Supplies: Towels	8.16
Janitor's Supplies and Equipment	77.21
Water for Building	21.54
Carting Supplies	24.00
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	\$ 1,289.51

MAINTENANCE COST.

Wages of Carpenter	\$ 7.50
Wages of Plumber	16.50
Wages of Steamfitter	63.25
Wages of Tinsmith	25.00
Wages of Mechanic's Helper	13.50
Wages of Laborers	46.25
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 282.80
Material used by Departmental Labor	30.93
Repairs and Replacements by Contract	160.00
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	\$ 473.73

ST. MARY'S LYCEUM BUILDING: OPERATION COST.

Salaries and Wages of Janitor, Laborers and Foreman of Laborers (Supervision)	\$ 2,586.20
Fuel Consumed	436.19
Office Supplies: Ice, \$45.90; Towels, \$27.48; other Supplies, \$39.03...	112.41
Janitor's Supplies and Equipment	102.00
Care and Repair of Clocks	12.00
Carting Supplies	24.00
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	\$ 3,272.80

MAINTENANCE COST.

Wages of Carpenter	\$ 27.50
Wages of Plumber	27.50
Wages of Steamfitter	115.50
Wages of Painters	150.00
Wages of Mechanic's Helper	18.00
Wages of Laborers	52.50
Wages of Foreman of Laborers (Supervision)	110.80
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	\$ 501.80
Material used by Departmental Labor.....	63.62
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	\$ 565.42

FUEL CONSUMED 1917.

	Coal Tons.	Lbs.	Wood.
Queens County Court House	712	1,820	
Interior Bath	101	1,540	
St. Mary's Lyceum Building	48	838	1 Cord
Town Hall, Flushing	78	80	1 Cord
Town Hall, Jamaica	93	1,709	
County Building, Jamaica	114	1,600	
Magistrate's Court, Far Rockaway	14	855	1½ Cords
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	1,160	8,442	
Total	1,163 Gross Tons	1,722 lbs.	3½ Cords

SYNOPSIS OF WORK PERFORMED BY DEPARTMENTAL LABOR.

QUEENS COUNTY COURT HOUSE.

CARPENTRY: Made and fitted storm sash, put on hardware, repaired hand rail, eased windows, put on wardrobe locks, made frame for tank, took down partition, cleaned old partition and put up same, put up iron cage, put night latch on iron door, closed top of partition in store-room, put up partition for Tinsmith Shop, repaired bolt, put on door check, put up shelves and made boxes for material in Plumber Shop, dressed lumber for sash partitions, put up picture moulding, hung door, repaired furniture, repaired locks, cut and relaid floors for plumber, took down storm stairs, prepared lumber and put up partitions and wire enclosure in office of the War Aid Bureau, repaired desk, put on desk lock, put in window screens in Janitor's apartment, prepared estimates for material required for alterations to make new Jury room, cells, etc., made and put up bulletin board, repaired large table in Part 1 Court Room, cleaned, repaired and put up oak partition to form store-room for Water Department, made battery box, put up scaffold for use of Electrician and cleaners, removed old flooring in Administration Building, also sleepers, door jambs and casings to lay out for partitions, made and set bucks for doorways for Bricklayer, took down temporary scaffolding in Part 1 Court Room, set iron beams in Administration Building, made mortar boards for Mason, repaired filing cabinets, eased doors, made cement forms for runway, put in elevator rope, built inside scaffold for Bricklayer, set window frames, built outside scaffold for Bricklayer, made repairs to furniture, closed up opening between Administration Building and Court House, fitted pair of sash, repaired door jamb and hung door in boiler room, made sand screen for Bricklayer, took up floors for Plumber and Steamfitter for new work, shored up brick wall and water tank on fifth floor, put up frames for concrete work on the first, second, third and fourth floors, cut out wall jambs and transom for setting kalomine door, fit and hung three pair of sash and put up telephone brackets, rehung four pair of sash with chains, set sill and wooden frame, made cuttings in floors for Steamfitter, boarded up kalomine door, took down scaffolds, cut out and set lintels, levelled up floor with steam ashes on fourth floor, put up window jambs and casings, cut casings for doors and windows, took off base boards, made cuttings for Electrician, put on two door checks, eased doors, repaired doors to coal bunkers, put mouldings on windows, took down iron railings, drilled iron and put up skylight over doorway, put up storm stoop and stairs on front porch, repaired and reglued chairs, put on weather strips to rear hall windows, put up storm sash in District Attorney's and Grand Jury rooms, put up bracing and filled with concrete around plumbing pipes on second and third floors, put door checks on main entrance door, Commissioner of Jurors' room and Law Library room, put glass in skylight over main entrance, assisted Mason to prepare floors for concreting, took out window sash for glazier and replaced same, relaid floor on second floor, took out and replaced window sash for iron worker, made repairs to furniture, locks, etc.

PLUMBING: Disconnected urinal and cleaned urinal waste in public toilet, cleaned area drain in front area, oiled closet flushometers, repaired urinal in Part 1 toilet, took inventory of stock in shop, repaired water main from street to building, repaired faucets and packed valves, cleaned closet in public toilet and closet tank on top floor, moved supplies and materials from shop on top floor to basement floor, repaired closet tank in Janitor's apartments, cleaned urinal waste in District Attorney's office and shower valve in boiler room, repaired closet tank and cleaned waste in the Sheriff's Civil Prison, repaired basin cocks and flushometers in the Sheriff's toilet, tightened iron bands on water supply tank in attic, cleaned urinal on second floor toilet, repaired closets, tanks and faucets, broke through concrete floor and cleaned water pipe, cleaned waste and repaired water

pipe and reset ornament on fountain on lawn, took down, resoldered and put up urinal tank and repaired faucets in public toilet top floor front, repaired valves on pump lines in boiler room and in man holes in street and park, recaulked soil pipe in basement, cleaned floor drains, took measurements and prepared specifications for work to be done in alteration of Jury room and Jail, repaired bath and basin cocks in Civil Prison, made plans and estimates of material for new plumbing in Jury room and cells, took down, cleaned and reset urinals, cleaned waste pipe, repaired drain pipe from fountain, took out old plumbing fixtures, waste and water pipes, cleaned pipe and flushometers in Grand Jury room, prepared material for making repairs in public buildings, traced and removed stoppage from water supply pipes, marked cement floors and walls to be cut out by Bricklayer, put in new cast iron pipe and connections for blow-off tanks in boiler room, repaired copper tank floats, tank valves and faucets, took apart, cleaned and oiled closet flushometers, repaired regulator on condensing tank in boiler room, broke up concrete floors to make connections to sewer and soil lines, made temporary repairs to pipes in Administration Building, installed soil, vent and waste pipes in Administration Building, repaired basin cocks, basin waste and water supply to slop sink, cleaned waste pipe in Janitor's apartments, put in new galvanized iron vent lines from closet and basin in new Jury room, put in slop sinks, waste and vent connections for same in basement, first and fourth floors, cleaned and oiled all flushometers weekly.

STEAMFITTING: Repaired steam coil on hot water heater, radiator valves and wheels on valves and leak in hot water tank, took inventory of stock on hand in shop, repaired check valve on fire line, radiator in toilet, thermosat on tank, steam and water line to damper regulator, cut and threaded pipe in shop, packed and repaired steam valves on boilers, repaired radiator in Janitor's office and Commissioner of Jurors office, also in Part 2 Court room, packed valve on receiving tank, repaired returns on Paul Vacuum System and shut off valve on riser to rear of building, put new gasket in leaky flanges on returns to receiving tank, repaired check valves on Vacuum System and in traps on returns from steam header to hot water coil in heater in boiler room, repaired check and shut off valves on tank to fire line, renewed water pressure line to automatic damper regulator in boiler room, repaired cold water line to hot water tank and pressure reducing and stop valves on steam lines, repaired feed pump and automatic valves on damper regulator, repaired sections in radiators with new draw nipples throughout the building, repaired leaky radiator valves with new discs and re-packed same, repaired boiler feed pump on steam end and check valves repaired line from boiler to steam gauge, disconnected feed water pumps, removed stones from fountain wall, cut concrete floor from sewer pipe to blow off tank to remove blow off from boilers and all side connections, repaired damper regulator and thermostat on hot water heater, packed steam valves on feed pump and feed line, disconnected radiators and piping in annex, repaired and packed valves and put new wheels on same, installed new cast iron blow off from boiler to sewer and all side connections to same, repaired lubricator on feed pump, ground in check valves on feed line to boilers, removed old piping in annex, removed 4-inch steam line and main to put new connections for risers from first floor to upper floors, repaired thermostat on hot water tank, installed new lubricator on automatic steam valve for feed pumps, disconnected pipe line and plugged up same for entrance to annex, cut holes in floors for piping, cut and threaded pipe for work in cells, run riser and connections on steam line, repaired hot water pipe in coil in tank, repaired leak in radiator valve.

TINSMITHING AND SHEET METAL WORK: Made temporary repairs on roof, repaired pails and utensils in boiler room, made galvanized iron leader pipes and galvanized iron drip pans for Laboratory, pointed up tile on roof and copper flashings with roof cement, made drip pans for elevator shaft, prepared

material in shop for use on public buildings, repaired leak in roof, made galvanized iron ice pails, repaired ash cans and cups for cuspidors, made galvanized iron oil tanks, soldered utensils, cleaned leader pipes and gutters on roof cut out, soldered and rivetted material in shop, made offsets for outlets on gravel roof, cut and formed iron to line gutters of skylight on public bath, cleaned extension roof and around leader pipes, pointed up flashings with roof cement, prepared material in shop for use on roof of buildings in Corporation Yard, College Point, made galvanized iron ventilating pipes and hoods, made cuspidor cups, made leader pipe and elbows, cut and made galvanized iron tank for use of Plumber, made pan to catch overflow from water tank, repaired various utensils, cut out and made galvanized iron drum for boiler for Far Rockaway Court Building, cut and fitted around vent pipe on roof of Administration Building, cut and made square galvanized iron leader pipes and boiler pipes, altered and repaired leader pipes and put up same on Administration Building, put new bolts in freight elevator, repaired leak in roof of Administration Building, cleaned outlets on gravel roof, repaired fountain in park, located leaks in roof and made repairs.

ELECTRICAL WORK: Repaired buttons and wiring in County Judge's room, installed new receptacle for desk light in County Court room, repaired two vacuum carpet cleaners, estimated for material required for new drop lights in County Court room, installed new bell in Janitor's quarters and new bell wire in elevator shaft, cut and drilled iron rods on grill partition in Sheriff's office, removed and reinstalled light in Sheriff's office, repaired bell work in Part 1 and County Court rooms, repaired elevator machinery, inspected signal system, repaired fixtures in first floor toilet, installed push buttons on landings for elevator calls, adjusted drops on elevator annunciator, installed new switch in basement locker and repaired portable lamp guards, made estimate for new work to be installed in Administration Building, repaired, cleaned, oiled and put fan motors in operation, cleaned controller board and polished contacts on elevator car starting switch, repaired bell wiring and adjusted annunciator on Judges' elevator, secured loosened fixture in basement, measured for new outlets in rear extension, examined and adjusted elevator machinery, recharged batteries and overhauled bell system, adjusted, cleaned and polished elevator controller contacts, motor collector rings and brushes, repaired fan motors, switches and contact clips and cleaned panel boards, repaired desk fixtures in Part 2, repaired brake and sheaves on public elevator, laid out plan for new equipment in Administration Building, removed old fixtures from third floor rear, also old conduit and gas pipes, installed new receptacle outlets in Supreme Court Clerk's room, removed grounds from basement circuit, installed metal moulding switch box adapters and fittings for receptacles in Clerk's room, third floor, cut through brick wall to install conduit and installed conduit, installed outlet boxes, repaired panel board, installed clamps to metal mouldings in Clerk's room on fourth floor, cut 20 feet of brick wall and ceiling for conduit.

PAINTING: Stained and varnished storm windows, stained and varnished border on floor, painted wood work, painted and stripped glass in toilets, sandpapered and oiled window sills, painted, grained and varnished partition, cleaned and varnished desks, chairs and tables, painted side doors, cleaned grease spots from wall and touched up with paint, painted locks and handles on front doors, stained and varnished base in Court room, touched up and varnished where required in building, painted three coats walls and ceilings in rooms on top floor, cleaned and scraped and painted fountain and railing in park, washed, cleaned and painted walls and wood work in toilets, painted leader pipes, painted sash and window frames, glazed where required, painted new sash, window frames, etc., and skylight with red lead on Administration Building, filled, sandpapered and varnished bulletin board, shellacked stains on walls and touched up lettered signs and on office doors, etc.

QUEENS SUBWAY BUILDING (BOROUGH HALL).

CARPENTRY: Put up cabinet and repaired table in Local Board room, repaired two desks in Pay Roll Division, put on lock and repaired furniture in Commissioner of Public Works office, put up shelving in store-room Bureau of Buildings, put up map cabinet in Consulting Engineer's office, made large table for Building Bureau store-room, made and put up shelves and telephones, put up shelving in store-room of Engineer of Highways, built shelves in Laboratory, made stands for cabinets in office of the Division of Audit and Accounts, put on door checks, built closets in Laboratory, made cuttings for Electrician and Plumber, put on chair castors, repaired cabinets and furniture, took out ten lights of glass and put in oak panels in the office or the Bureau of Sewers, and eight lights of glass in the Engineer of Highways and three in Laboratory, replaced with oak panels, put on top sash on partition of office of the Henry Street Settlement workers and top sash on partition of office of the Bureau of Public Buildings and Offices, took out twenty-three glass panels and put in oak panels in the fourth floor store-room, cut and put in twenty-four lights of florentine glass, built large work tables for Laboratory and the Bureau of Sewers, made plaster boards for Mason, set ventilators in the Bureau of Buildings store-room, hung doors and put hardware on Bureau of Buildings store-room, put on base and moulding on hall side of store-room, put on door check of Audit and Accounts office, took out three glass panels and replaced with oak panels in blue print room and put up top sash over partition, built racks, put up shelves, repaired telephone booth and put up oak shelf in Bureau of Street Cleaning, made and put up closets for glassware in Laboratory, put on door check and desk lock in the office of the Bureau of Permits, hung map in the office of the Bureau of Public Buildings and Offices, built reagent table in Laboratory, built dark room for photograph development in blue print room, put up stand for sink, shelving and stands for equipment in Laboratory, made alterations and repairs in the office of the Purchasing Agent, Appointment Clerk, Permit Clerk and Settlement workers, made and put up drying racks and shelf brackets in dark room, put up shelving in store-room No. 2 Bureau of Buildings, put up ten feet of office railing in the office of the Commissioner of Public Works, fitted key in cabinet, put window guards on three windows, put up sign at entrance to office at entrance to Bureau of Buildings, put on Yale locks and drawer pulls and repaired desk, eased up four doors, put up card racks for time clock cards, altered and made clothes locker from old filing cabinet, made cuttings for electrician in Laboratory, put on four Yale wardrobe locks, took apart, removed and put together desks moved from one office to another, repaired box in photographing room, put up brackets for flag poles, planed off desk drawers, made and put up motor fan brackets, set up cutting machine in the Bureau of Sewers and wringing machine in blue print room, repaired map racks, repaired roll top desk and reglued four revolving office chairs, repaired desk in Borough President's office and eased doors in Laboratory and Bureau of Buildings office, put up cabinets and put on door checks in the Audit and Accounts office and Purchasing Agent, made frame to hold flag pole for service flag, repaired door and lock on Photo room, put up partition on first floor and put on hinges, hasp and padlock, made general repairs to furniture as required.

PLUMBING: Fitted up Laboratory with gas, water and waste pipes, gas connections and fixtures, soap-stone sinks and working tables, prepared estimate for material to be used in blue print room, cut openings in cement floor and walls for the installation of gas, water and waste pipes in blue print room and installed necessary equipment.

TINSMITHING AND SHEET METAL WORK: Made galvanized iron drip pan for use in Laboratory, repaired steel filing cases in the office of the Bureau of Buildings.

ELECTRICAL WORK: Installed conduit for tabulating machine motor feeders and wiring for Laboratory equipment, cut through cement floors for conduit openings, repaired switch and plug on adding machine, repaired desk lamps in Bureau of Audit and Accounts, installed conduit and cut out box on third floor, installed conduit and fittings in Laboratory junction box to switch box feeder wires from Laboratory to service switch, connected up machines and appliances in Laboratory, installed ground clamps on conduits in tabulating office, placed in operation motor generator set, tabulating and sorting machines, installed blue print and dryer machines on third floor, adjusted brushes on tabulating machine, repaired electric oven in Laboratory, drilled through steel cabinet for new conduit line in Laboratory, cut through cement floors and walls for conduit lines to blue print room, installed wiring and fixtures and connected mercury rectifier and put same in operation in Laboratory, repaired addressograph machine and tabulating motor, adjusted contacts and connections on blue print machine, made portable lamp fixtures for Bureau of Sewers, installed fan motors, oiled, cleaned and repaired forty fan motors, oiled machinery in Tabulating, payroll and blue print rooms, re-taped and water-proofed cable on heating coil in Laboratory, repaired addressograph motor, cleaned and wrapped up fan motors, repaired hot plates in Laboratory, repaired contacts on actinic ray lamp, cleaned blue print and tabulating machines, repaired three portable desk lamp fixtures, installed new attachment plug and adjusted starting ring on addressograph machine, repaired fuses in Laboratory panel.

PAINTING: Cleaned, stained and varnished cabinets, desks, chairs, etc., painted pipes in Laboratory with P. & B. electric compound, stained and varnished shelves and office partitions and fixtures, plastered walls where broken by mechanics, painted with asphaltum in Laboratory, kalsomined glass in large windows on first floor, lettered on glass in office doors and partitions, touched up and varnished in various offices.

INTERIOR BATH.

CARPENTRY: Put up five brackets and flag poles.

PLUMBING: Cleaned shower heads, repaired shower valves and faucets, cleaned floor drain, repaired closet tanks and cleaned basin waste on men's and women's side of bath, took down marble slabs, repaired shower valves behind same and reset slabs, cleaned soil line in cellar and floor drain and shower heads, valves, faucets, etc., have been regularly cleaned and repaired when necessary. It has been necessary several times during the year to take down the marble slabs to repair the water pipes and valves behind same and resetting same has required considerable labor.

STEAMFITTING: Investigated cause of lack of hot water, adjusted water pressure, estimated for putting manhole in hot water tank, set and regulated pressure reducing valve on main, repaired returns to heating boiler, and feed water line, packed all valves in boiler room, repaired radiator valves and put new air valves on radiators.

ELECTRICAL WORK: Adjusted contact clips on main switch, repaired panel cut out, switch and fuse clip, rewired two fixtures in basement installed conduit and outlet boxes for thermostat gauge over boiler, repaired various fixtures on first floor, removed grounds from circuit lines, renewed fuses, cleaned panel and switch boards.

TINSMITHING AND SHEET METAL WORK: Cleaned gutters and leader pipes, pointed up flashings on roof; lined gutters with galvanized iron,

took apart, repaired and put up leader pipes and renewed leader pipes and tubes where required.

PAINTING: Painted all metal work on roof two coats, cleaned and rubbed down and varnished front doors, pointed up tiling.

ST. MARY'S LYCEUM BUILDING.

CARPENTRY: Put new spring in door check on main entrance door, repaired and put on door check, eased drawers in desks, filed and fitted three keys, removed thirty shelves from cabinet, put on locks and repaired chairs.

PLUMBING: Put in flush pipe, repaired closet tank, cleaned waste pipe, cleaned closet and repaired basin and ball cocks, repaired closet tank and cleaned basin waste, repaired closet tank in basement and private toilet on second floor, repaired ball cocks and syphon valves on second floor, cleaned main traps in cellar, repaired faucets in court and basement.

STEAMFITTING: Repaired push nipple in leaky section of radiator, repaired leaky flanges in steam lines with new gaskets, put new piping on water column, new gauge glasses and packed valves in boiler room, repaired blow off cock and valve on boiler, repaired pipe hangers and leak in flanges on steam line, packed radiator valves and repaired radiators, repaired steam line and returns in basement, repaired leak in boiler flue.

PAINTING: Painted the ceilings and side walls in the Magistrate's Court room three coats of paint, cleaned and varnished woodwork, painted and varnished toilet room, repaired plaster, washed walls, kalsomined, painted and varnished.

TOWN HALL, NEWTOWN.

CARPENTRY: Put in transom lift and eased window sash, put on electric door check, repaired locks, chairs, settees, escutcheons and filed keys, made and fitted nest of pigeon holes in old closets, made front for pigeon holes closet and hung door on same, put up window screens and hung screen door, repaired three desks, eased doors, took out screens, put on weather strips, hung storm doors, repaired sash in book cabinet, tightened coil springs, repaired wardrobe, made and put in sash bars, put on door checks, eased doors, fastened ladder to filing closet, repaired desk and gate.

PLUMBING: Repaired urinal and basin cocks, cleaned urinal waste, tapped and cleaned house drain in cellar, repaired closet tank in men's toilet, cleaned closet and soil pipe in cellar, cleaned urinal and basin waste and repaired faucets in public toilet.

STEAMFITTING: Made repairs to leaky radiators, repaired steam line returns in basement and leak in flue of boilers.

TINSMITHING AND SHEET METAL WORK: Made and put up new galvanized iron leader pipes, elbows and offsets, made repairs to gutter flashings.

ELECTRICAL WORK: Installed push button switches in Court room, installed wire and fixtures for temporary use on outside lamp-post, inspected lighting and signal system, adjusted switch clips and contacts on first floor panel, adjusted bell in Janitor's room, removed temporary wire and connections for outside light, removed broken lamp butt from dormitory fixture, repaired socket, adjusted push buttons, secured socket on desk fixture, installed plug and placed temporary lighting for election booths.

PAINTING: Cleaned and alluminumed radiators on top floor, painted sash, glazed and puttied sash, cleaned and varnished woodwork in halls, assisted tin-smith to put up leader pipes and painted pipes, cleaned, rubbed down and varnished outside doors, stained and varnished woodwork, painted closet, lockers,

etc., cleaned and varnished furniture, glazed, repainted and painted window sash, touched up where required, stained and varnished.

TOWN HALL, FLUSHING.

CARPENTRY: Took out old prisoner's pen from Magistrate's Court room, fitted and hung iron doors on prisoners' pen, put in sash cord and hung sash, repaired scuttle cover, repaired Caldwell sash balances, repaired desks, chairs and settees, put lock on telephone desk, fastened nosing on stairs, fitted three keys for prisoners' pen, removed old partition material from cellar, cleaned and made ready for use in the Court House, L. I. City, built scaffold for painters' use in Magistrate's Court room and took down same after painters had finished, repaired trusses and put up reviewing stand on the occasion of the New York State Firemen's Convention, built partition in Court Clerk's room, repaired and hung basement door, eased window sash, rehung main entrance door and put on door check, put in sash cord, made and put up moulding to hold glass in partitions, took down and removed reviewing stand to Corporation Yard, removed floor for plumber to find gas leak and relaid floor, put up furring strips to attach metal ceiling in basement, repaired door checks, made small repairs throughout the building.

PLUMBING: Cleaned and reset closet in public toilet, repaired closet tank in Judge's private toilet, cleaned waste pipes, urinal wastes and repaired urinal tanks and ball cocks, cleaned house drain and waste pipe, repaired faucets, tapped and cleaned soil lines in basement, repaired gate valve on cellar drain, repaired closet tanks, traced leak in gas pipe and removed old gas pipe, cleaned toilets and made repairs to plumbing from time to time as occasion required.

STEAMFITTING: Repaired leaky radiator, repaired automatic feed line to boiler and steam damper regulator and water column, repaired and cleaned flues of boiler, packed radiator valves and repaired radiator wheels, installed new radiator in place of leaky one on second floor.

TINSMITHING AND SHEET METAL WORK: Put up sheet metal on basement ceiling, soldered around electric conduits, put up galvanized iron wire doors on prisoners' pen, drilled and bolted same together, took apart mesh wire and wrought iron partition in Court room, repaired leak in roof and scuttle frame, made galvanized iron covered door, repaired galvanized iron tanks in store-room, repaired flashings on roof, soldered leader pipes, cleaned leader outlet earthen pipes, replaced and cemented same, pointed up with roof cement, repaired leaks in porch and extension roofs, stopped leaks around chimneys with roof cement, cleaned gutters and outlets on main and extension roofs, took down old leader pipes and put up new, made and put up offsets and bends, cemented cast iron pipes, repaired leak in roof around flag pole and chimneys, covered ceilings in basement with sheet metal, repaired ventilator in store-room, put up metal ceiling in local Highway Office, repaired ash cans, etc.

ELECTRICAL WORK: Removed ground from basement circuit and renewed fuses, stored old panel boards removed from old Borough Hall, tested and sorted lamps to be returned to the Dept. of W. S. G. & E., repaired testing magneto and large fixture in Court room and installed new lamps, repaired fixture in Highway Office, repaired fixture in rear hall, adjusted buzzer in Magistrate's Court, overhauled and repaired fan motors and vacuum cleaner, repaired basement light fixture and fixture on second floor landing, shipped fan motors to Borough Hall from storeroom, repaired guards, blades and windings of three fan motors, repaired fixture in Court Clerk's room, removed moulding, wiring and fixtures from ceiling of local Highway Office, removed shades and lamps from Court room ceiling fixtures, cleaned and reinstalled same, installed new support frame and attachment wire on fan motors, installed new switch in base-

ment vault, repaired front porch light, installed new metal moulding, wiring and fixtures in local Highway Office, removed wire from the way of tinsmith, recharged batteries, made up temporary lighting fixtures for use in election booths, repaired first floor panel switch, removed and relocated conduits on basement ceiling to admit metal ceiling, removed conduit wire and fittings and reinstalled in new location to admit change in water pipes, rearranged conduits and lowered fixture outlets to new ceiling line in basement, secured loosened conduit and switch box, installed new shades on fixtures in Water Department Office, repaired portable desk fixture, installed new switch in Park Department Office and new attachment plug and portable light fixture for tinsmith, removed ground in front basement.

PAINTING: Cleaned, rubbed down and varnished furniture, washed, cleaned, replastered walls and ceilings, painted flag pole two coats, painted Court room toilet, and Judge's toilet room, took down loose plaster and replaced same in Court Clerk's room, cleaned and painted wood-work in hall, painted new metal ceilings and side walls of large Court room, painted wood-work, grained and varnished, painted ceilings, walls and wood-work in Judge's and Court Clerk's rooms, cleaned and varnished all hard wood, Judge's bench, railings, etc., bronzed radiators and steam pipes, glazed sash where necessary, painted, grained and varnished partitions in Court Clerk's rooms, cleaned, rubbed and varnished desks and chairs.

TOWN HALL, JAMAICA.

CARPENTRY: Repaired windows, lock in Judge's office, settees, fastened brass rail in Court room, put night latch on front door, put in sash cord, changed lock and repaired door and trim in Spanish War Veterans' room, took down oak railing, repaired desks and put on drawer locks, took down and put away sform porch, built portable reviewing stand for use on Memorial Day (this stand is built in sections so that it may be used at any of the Public Buildings in the Borough), took apart and removed the reviewing stand to Jamaica Corporation Yard, repaired five wire window screens and made slides for same, repaired doors, wardrobe and eased doors, made ladder for use in Town Hall, Newtown, and stamp racks for Municipal Court, put new door saddle at main door entrance doorway, made new well hole cover, repaired and put up storm porch, repaired door and lock in Coroner's Court room, repaired hand rail on front porch, repaired furniture, repaired door and lock on rear toilet, fixed linoleum in Special Sessions Court room, repaired window sash, bolts, locks, rehung door in Judge's room, renewed flooring, eased doors on storm porch.

PLUMBING: Disconnected water pipe in cellar and cleaned rust from same, cleaned waste pipes and repaired water pipe and closet tank, cleaned urinal waste and repaired urinal tanks, repaired faucets, resoldered closet tank, cleaned basin waste in third floor toilet, repaired basin cock in Magistrate's Court room, installed new water line from cellar to private and public toilets on second floor, turned on water at drinking fountain in street and cleaned waste pipe from same, removed water supply line to Magistrate's office and put in new pipe where rusted, put in new basin cocks, cleaned soil line in cellar, repaired ball cocks of closet tanks in public toilet, put in new iron connections to leader pipes, cleaned main trap and soil line in cellar, repaired closet tank and basin cocks in private toilet on first floor rear.

STEAMFITTING: Repaired leaky radiator in Jury room and automatic feed on boilers, repaired valve stems on main steam line in boiler room, also nipples in manifold on boilers, repaired and packed all radiator and air valves, packed steam valves on boilers, repaired water column, gauge cock and drain manifold, discs on check valves on returns to boilers, also radiator valves in Fire Alarm Telegraph Bureau, main hall and in Magistrate's Court room.

TINSMITHING AND SHEET METAL WORK: Riveted and bolted on hinges and lock on iron door, cleaned around outlets in gutters and repaired leak in roof, edged tin to make gutter linings, repaired iron snow shovels, thawed out ice from outlets on roof gutters, took down iron leader pipes to clean soil pipes, replaced same and soldered together, made temporary repairs to gutters with roof cement, repaired leak on porch roof and examined main roof for leaks, repaired leak in main roof and gutters, lined main roof gutter with tin, repaired old leader pipes and put up new where required, repaired wrought iron fence railing, took apart and straightened brace rods, fastened same together with stove bolts, lined gutters and painted same with metallic paint.

ELECTRICAL WORK: Inspected equipment installed by contractor, repaired annunciator in Magistrate's Court room, installed bell wiring from Judge's to Clerk's room, Special Sessions Court, repaired fixtures in Coroner's office, installed push buttons and batteries, cleaned panel and switch boards, removed grounds from basement and third floor circuits, renewed fuses, secured switches and contacts on panel board, repaired second floor panel lock and fixture in Police dormitory, removed conduit wiring, switches and fittings from wall and in cellar to permit new partition work in Police Department rooms, installed new conduit wiring switches and fittings in line with new partitions in cellar, installed temporary lights in Police Department rooms, removed fixtures and conduit to make way for metal ceiling work, reinstalled same when metal work was completed, removed grounds from circuit and renewed fuses.

PAINTING: Cleaned and varnished desks and furniture in Court room, repainted and painted window sash, painted tin roofs, gutters and flag pole, put in four lights of glass 12x32, patched plastering, cleaned and painted walls, glazed where required, repainted sash, touched up and varnished wood-work in various rooms.

COMFORT STATION, JAMAICA.

CARPENTRY: Repaired closet seats, eased doors and sash.

PLUMBING: Cleaned closets and regulated lifting rods of closet tanks, took out, cleaned, repaired and reset closets, cleaned soil line, closet and basin waste and repaired faucets and ball cocks, cleaned main trap, repaired urinal flushometers and closet tanks, tested water meter, repaired valves of closet tanks, took out broken closet and put in new closet, cleaned slop sink and waste.

ELECTRICAL WORK: Removed protective cabinet from motor starting box to allow work by tinsmith, repaired lock and hasp on cut out box door and shade holder fixture, repaired switch box lock catch, secured loosened fixture, restored shades, cleaned up panel and switch boards, overhauled ventilating machinery, painted iron switch boxes and cables, installed new lighting system on stairways.

PAINTING: Glazed sash, repainted and painted sash and frames.

COUNTY BUILDING, JAMAICA.

CARPENTRY: Fitted sash for blue print press, repaired furniture, made cuttings for tinsmith, cleaned old material to make book racks and made and put up book and stencil racks and foot benches, put Yale night latch on brass door, fastened toilet tanks, put up chair rail, built two large desks from old material and extended counter shelf, repaired and hung door in toilet, repaired three long tables, installed new window frame and trim, put up towel racks, made and hung oak gate, put door check on main entrance door, repaired and hung brass gate, put up shelves for electric fans, made cuttings for steamfitter and drilled holes in the floor, made spindle and repaired front door lock, put on Yale mortise lock, fastened brass railing and gate in office, made large table

for use of election canvassers, cleaned and repaired old lumber for use as required.

PLUMBING: Repaired urinal and closet tanks, cleaned waste pipe in cellar, made alterations to water pipe in cellar, repaired water pipe in Janitor's apartments, repaired faucets, closet and urinal tanks, basin cocks, ball cocks in basement and second floor toilets, cleaned waste pipe in public toilet, removed stoppage from soil lines and repaired urinal tanks in basement toilet.

STEAMFITTING: Removed old covering from steam pipes and covered same with asbestos covering, repaired connecting link in grate bar and rods in damper and flue, overhauled valves on boilers, packed radiator valves, renewed water feed line from main to boilers with new fittings and valves, repaired water feeder and gauge cocks on water column, recut and fitted brass railing and gate in County Clerk's Office, installed new automatic water feeder on boiler, replaced broken grate and connecting links in boiler.

TINSMITHING AND SHEET METAL WORK: Made galvanized iron blue print tank for County Clerk's Office, inspected and reported on work on skylight over Surrogate's Office, put together and soldered leader pipes, repaired gutters and leader pipes on Janitor's residence in rear of County Building, cut holes in boiler pipes in order to clean out pipes and flues, cleaned boilers, flues and tubes, made galvanized iron stoppers, cemented with asbestos cement around boiler pipes, repaired ash cans, pails and utensils.

ELECTRICAL WORK: Assembled blue print railway, drilled outside wall and cement floor for supports and braces, adjusted elevator machinery and switch blades on panel board, repaired push buttons, installed portable extension fixtures for vacuum cleaner, removed broken chain switch and installed snap switch on reflector lights, drilled with electric drill through bronze plate and removed steel inner plate fitting lock to secure bronze door in Surrogate's Office, repaired fixture, wiring, renewed fuses, inspected circuits for installation of additional lights, removed conduit, wiring, and fixtures in the way of new skylight in Surrogate's Office, re-installed same in new location, drilled through three iron, brass and bronze partitions in general office, installed wire and fixture for temporary use in coal bunkers, repaired and secured outside wall fixtures, removed fixture, outlet box conduit and wiring in rear basement to allow installing new light in Janitor's locker, installed portable fixture in Clerk's vault, installed push buttons at first floor elevator door, put new wire in vacuum cleaner, installed new part on elevator door check, oiled and adjusted elevator door checks, cleaned and oiled fan motors, repaired outside alley lights, changed lighting system in Clerk's vault, removed old fixtures, metal moulding, wiring and fittings for ten lights in new locations, made up and installed ten new pendant fixtures in Clerk's vault, repaired and cleaned sewing machine motor in Book Bindery, repaired winding and regulating plates on fan motors, installed new outlet box covers, made up and installed new pendant fixtures in elevator machine room, installed cabinet for elevator parts in machine room, installed moulding and fixtures for new lights in bindery, installed shade holders, sockets and shades in bindery, repaired fan motor in general office, adjusted elevator contacts, repaired annunciator and elevator buttons, repaired elevator door mechanism, fitted door plate and shield, door guard, rubber bumper, etc., on front door, adjusted elevator controller and contacts on both elevator cars.

PAINTING: Painted window sash, put in light of glass 42 x 52, filled and varnished oak gate, plastered cracks in walls and ceilings, cleaned and painted, lettered signs, office doors, etc.

MAGISTRATE'S COURT, FAR ROCKAWAY.

CARPENTRY: Assisted steamfitter to put up iron pipe flag pole, made cuttings in roof for same and repaired roof.

PLUMBING: Repaired closet tanks, basin cocks and cleaned soil lines, re-paired faucets and cleaned basin waste.

STEAMFITTING: Cut threads and joined iron flag pole, fitted and erected pole, repaired radiator valves and valve seats and automatic damper regulator, investigated leak in steam heating boiler, inspected installation of new steam heating boiler.

TINSMITHING AND SHEET METAL WORK: Removed old boiler pipe, made and put up new pipe and cemented around same with asbestos cement.

DEPARTMENTAL LABOR PERFORMED FOR OTHER BUREAUS

BUREAU OF SEWERS: Woodhaven Station.

ELECTRICAL WORK: Installed and connected cutout box and ground clumper.

BUREAU OF STREET CLEANING: Academy St. Station.

PLUMBING: Thawed out and repaired water pipe.

TOPOGRAPHICAL BUREAU: L. I. City.

CARPENTRY: Erected office partitions (Wood and glass).

ELECTRICAL WORK: Repaired wiring, buzzers and buttons on signal system, installed and re-arranged circuits for bell system, installed batteries and buzzers.

CARPENTRY: Installed nineteen lights of glass, painted, grained and varnished.

PLUMBING: Cleaned and repaired waste pipe from blue print tank.

ELECTRICAL WORK: Disconnected old blue print machine, renewed conduit and installed new machine.

BUREAU OF SEWERS: Jamaica Plant.

CARPENTRY: Built store house and closets.

BUREAU OF STREET CLEANING: Jamaica Station.

PLUMBING: Run water pipe, put in closet and tank.

CHILDREN'S COURT, Jamaica.

STEAM FITTER AND CARPENTER: Threaded and erected iron flag pole. CORPORATION YARD, Jamaica.

TINSMITH: Made miscellaneous repairs.

BUREAU OF STREET CLEANING, L. I. City.

PAINTING: Cleaned and replastered walls and ceiling and painted same.

BUREAU OF SEWERS: Jamaica.

CARPENTRY: Made repairs.

CORPORATION YARD, College Point.

TINSMITH: Made and put up ventilating pipes and hoods, put up galvanized iron gutters and leaders.

PAINTING: Painted gutters and leaders, etc.

BUREAU OF SEWERS: Far Rockaway Disposal Plant.

CARPENTRY: Cleaned old material and rebuilt fence.

CORPORATION YARD, L. I. City.

PLUMBING: Repaired closet tank and faucet, cleaned waste pipe, installed new yard hydrant.

BUREAU OF STREET CLEANING: Metropolitan Ave. Incinerator.

ELECTRICAL WORK: Tested equipment at new Incinerator with Engineer of the Dept. of W. S. G. and E.

BUREAU OF STREET CLEANING, L. I. City.

PLUMBING: Repaired plumbing and put in new closet tank.

DEPARTMENTAL LABOR, EQUIPMENT, SUPPLIES AND MATERIAL
FURNISHED OTHER BUREAUS

BUREAU OF SEWERS

Wages of Carpenter	\$ 36.25
Wages of Electrician	7.30
Office Supplies	3.02
Janitor's Supplies	2.41
	<hr/>
	\$48.98

BUREAU OF STREET CLEANING

Wages of Plumber and Helper	\$ 25.50
Wages of Electrician	2.50
Wages of Painters	120.00
	<hr/>
	\$148.00

TOPOGRAPHICAL BUREAU

Wages of Carpenter	\$ 87.50
Wages of Electrician	14.50
Wages of Painter	79.50
Wages of Plumber and Helper	4.25
Wages of Laborers	51.25
Hardware and Glass	47.95
Lumber	72.54
Office Supplies	11.40
Janitor's Supplies	11.79
Ice: Long Island City Office, \$121.95; Jamaica Office, \$22.98.....	144.93
Care and Repair of Clocks	60.00
	<hr/>
	\$585.61

BUREAU OF HIGHWAYS

Wages of Tinsmith	\$ 87.50
Wages of Carpenter	42.50
Wages of Plumber and Helper	17.00
Wages of Laborers	22.50
Material Furnished	8.30
	<hr/>
	\$177.80

CHILDREN'S COURT, JAMAICA

Wages of Carpenter	\$ 7.50
Wages of Steamfitter	8.25
Wages of Laborer	7.50
Flags and Halyards	18.00
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	\$41.25

MEETINGS HELD IN PUBLIC BUILDINGS DURING THE YEAR 1917

QUEENS COUNTY COURT HOUSE

<i>Date</i>	<i>Association</i>	<i>Hour</i>	<i>Number Present</i>
Jan. 23—	United Civic Association	8:00 to 11:30 P.M.	20
Apr. 27—	Preparedness Committee	7:00 to 11:00 P.M.	300
May 7—	Preparedness Committee	7:00 to 11:00 P.M.	350
May 21—	War Committee	7:00 to 10:00 P.M.	30

May 28—War Committee	7:00 to 10:00 P.M.	60
May 31—Red Cross Society	7:00 to 11:00 P.M.	400
June 4—War Committee	7:00 to 11:00 P.M.	40
June 9—War Registration Committee	7:00 to 10:00 P.M.	50
June 11—War Committee	7:00 to 10:00 P.M.	10
Sept. 4—Red Cross Society	8:00 to 11:00 P.M.	100
Sept. 23—War Library Fund	8:00 to 11:00 P.M.	50
Oct. 24—Red Cross Society	7:30 to 11:30 P.M.	125

QUEENS SUBWAY BUILDING (Borough Hall)

Apr. 30—Queens County War Aid Association.....	8:00 to 11:35 P.M.	10
May 1—Queens County War Aid Association.....	8:00 to 12:00 P.M.	10
May 3—Queens County War Aid Association.....	8:00 to 11:00 P.M.	13
May 8—Ladies War Aid Association.....	8:00 to 10:30 P.M.	31
May 9—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
May 11—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
May 14—Queens County War Aid Association.....	8:00 to 9:30 P.M.	10
May 22—Queens County War Aid Association.....	8:00 to 11:30 P.M.	10
May 29—Queens County War Aid Association.....	8:00 to 11:30 P.M.	10
June 12—Queens County War Aid Association.....	8:00 to 11:00 P.M.	14
June 15—4th of July Celebration Committee.....	8:00 to 10:00 P.M.	25
June 19—Queens County War Aid Association.....	8:00 to 10:30 P.M.	12
June 26—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
July 3—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
July 10—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
July 24—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
Aug. 7—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
Aug. 14—Queens County War Aid Association.....	8:00 to 10:30 P.M.	10
Sept. 25—Queens County War Aid Association.....	7:30 to 10:30 P.M.	10

ST. MARY'S LYCEUM BUILDING

(Court Room used for Coat Room)

Feb. 2—Knights of Columbus Ball	10:00 to 3:00 A.M.	300
Mar. 16—Division No. 1 A. O. H. Ball	9:00 to 5:00 A.M.	1500
Apr. 27—Knights of Columbus Ball	9:00 to 4:00 A.M.	500
May 6—Mt. Carmel Holy Name Society	10:00 to 3:00 A.M.	200
Oct. 26—Auxiliary Nursing Sisters of the Poor Ball	8:00 to 2:00 A.M.	1000

TOWN HALL, NEWTOWN

Jan. 9—Elmhurst Civic Association	7:30 to 10:30 P.M.	18
Jan. 9—Civil Service Employees	7:30 to 10:30 P.M.	35
Jan. 25—Roosevelt Avenue Taxpayers Association..	7:00 to 11:00 P.M.	50
Feb. 1—Roosevelt Avenue Civic Association.....	7:30 to 11:00 P.M.	23
Feb. 8—Roosevelt Avenue Civic Association.....	7:30 to 11:00 P.M.	30
Feb. 13—Civil Service Employees Association.....	7:30 to 10:30 P.M.	15
Feb. 15—Roosevelt Avenue Improvement Association	7:30 to 10:30 P.M.	20
Feb. 20—Elmhurst Civic Association	7:30 to 11:30 P.M.	50
Mar. 1—Roosevelt Avenue Civic Association.....	7:30 to 10:30 P.M.	18
Mar. 13—Civil Service Employees Association.....	7:30 to 10:30 P.M.	20
Mar. 14—Home Defense League	7:30 to 9:30 P.M.	60
Mar. 15—Roosevelt Avenue Improvement Association	7:30 to 10:30 P.M.	20
Mar. 30—Roosevelt Avenue Rapid Transit Ass'n....	7:30 to 10:30 P.M.	28
Apr. 3—Home Defense League	7:30 to 10:30 P.M.	89
Apr. 10—Civil Service Emp. Association.....	7:30 to 10:30 P.M.	35
Apr. 12—Roosevelt Avenue Improvement Association	7:30 to 10:30 P.M.	32

Apr. 14—Home Defense League	7:30 to 9:30 P.M.	100
Apr. 16—National Security League	7:30 to 11:30 P.M.	128
Apr. 17—Roosevelt Avenue Improvement Association	7:30 to 11:00 P.M.	35
Apr. 19—Roosevelt Avenue Improvement Association	7:30 to 11:30 P.M.	50
Apr. 24—United Civic Association	7:30 to 11:30 P.M.	7
May 3—Roosevelt Avenue Transit Association....	7:30 to 11:30 P.M.	25
May 7—Elmhurst Civic Association	7:30 to 11:30 P.M.	27
May 8—Civil Service Emp. Association	7:30 to 10:30 P.M.	25
May 12—Home Defense League	7:30 to 11:30 P.M.	100
May 19—Home Defense League	7:30 to 11:30 P.M.	105
May 23—United Civic Association	7:30 to 11:30 P.M.	25
June 2—Home Defense League	7:30 to 11:30 P.M.	135
June 4—Elmhurst Civic Association	7:30 to 10:30 P.M.	15
June 14—Elmhurst Civic Association	7:30 to 10:30 P.M.	28
Sept. 11—Civil Service Emp. Association	7:30 to 10:30 P.M.	25
Sept. 21—Camp Library Fund Association	7:00 to 11:00 P.M.	50
Sept. 29—Home Defense League	7:30 to 11:30 P.M.	50
Oct. 5—Liberty Bond Committee	7:30 to 10:30 P.M.	15
Oct. 9—Civil Service Emp. Association	7:30 to 10:30 P.M.	30
Oct. 9—Liberty Bond Committee	7:30 to 10:30 P.M.	25
Nov. 13—Civil Service Emp. Association	7:30 to 10:30 P.M.	25
Nov. 15—Y. M. C. A.....	7:00 to 11:00 P.M.	50
Nov. 17—Home Defense League	7:30 to 10:30 P.M.	50

TOWN HALL, FLUSHING

Jan. 24—Boy Scout Masters	7:30 to 10:30 P.M.	30
Feb. 21—Boy Scout Masters	7:30 to 10:30 P.M.	25
Mar. 6—United Civic Association	8:00 to 11:30 P.M.	25
Mar. 29—Jamaica Local Board	8:00 to 9:30 P.M.	40
May 15—Queens County War Aid Association	8:00 to 11:00 P.M.	30
May 24—Jamaica Local Board	8:00 to 9:00 P.M.	40
July 26—Jamaica Local Board	8:00 to 10:00 P.M.	50
Sept. 27—Jamaica Local Board	8:00 to 9:00 P.M.	30
Oct. 30—United Civic Association	8:00 to 10:00 P.M.	15

TOWN HALL, JAMAICA

Jan. 2—Jamaica Citizens Association	8:15 to 10:00 P.M.	10
Jan. 10—Boy Scout Masters	8:00 to 10:20 P.M.	38
Jan. 24—Home Defense League	8:15 to 9:45 P.M.	28
Jan. 25—Jamaica Local Board	8:00 to 10:40 P.M.	245
Feb. 2—Fourth of July Celebration Committee ...	8:00 to 10:30 P.M.	10
Feb. 3—Home Defense League	8:10 to 10:30 P.M.	136
Feb. 6—Jamaica Citizens Association	8:00 to 10:30 P.M.	20
Feb. 14—Boy Scout Masters	8:00 to 10:30 P.M.	20
Feb. 20—Jamaica Citizens Association	8:00 to 10:30 P.M.	15
Feb. 27—Jamaica Local Board	8:00 to 10:30 P.M.	154
Mar. 6—Jamaica Citizens Association	8:00 to 9:05 P.M.	10
Mar. 8—Boy Scout Masters	8:00 to 10:00 P.M.	24
Mar. 12—Commissioner of Jurors	7:00 to 9:30 P.M.	
Mar. 19—Home Defense League	8:30 to 10:45 P.M.	180
Mar. 20—Jamaica Citizens Association	8:15 to 9:30 P.M.	12
Mar. 21—Boy Scout Masters	8:00 to 10:00 P.M.	38
Mar. 26—Memorial Day Committee	8:00 to 11:00 P.M.	60
Mar. 26—Red Cross Society	8:00 to 11:00 P.M.	200
Apr. 4—Naval Recruiting Committee	8:00 to 10:40 P.M.	45

Apr.	4—Catskill Water Supply Committee	8:00 to 10:30 P.M.	20
Apr.	4—Boy Scout Masters	8:00 to 11:00 P.M.	40
Apr.	9—Red Cross Society	7:30 to 10:30 P.M.	180
Apr.	9—Memorial Day Committee	8:00 to 10:30 P.M.	40
Apr.	17—Jamaica Citizens Association	8:15 to 10:30 P.M.	25
Apr.	18—Boy Scout Masters	8:00 to 10:30 P.M.	25
Apr.	24—Jamaica Village Society	8:00 to 10:30 P.M.	30
Apr.	24—Memorial Day Committee	8:15 to 11:00 P.M.	50
Apr.	30—Jamaica Local Board	8:00 to 11:00 P.M.	50
May	1—Jamaica Citizens Association	8:00 to 10:00 P.M.	25
May	3—Womans League	8:00 to 10:30 P.M.	150
May	4—Home Defense League	8:00 to 10:30 P.M.	40
May	5—Committee 10c fare L. I. R. R.	8:00 to 10:00 P.M.	15
May	5—Home Defense League	8:00 to 10:30 P.M.	40
May	14—Memorial Day Committee	8:00 to 10:30 P.M.	15
May	15—Jamaica Citizens Association	8:00 to 10:00 P.M.	12
May	16—Fourth of July Celebration Committee....	8:00 to 10:30 P.M.	20
May	23—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	25
May	30—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	30
June	5—Jamaica Citizens Association	8:00 to 10:00 P.M.	12
June	6—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	20
June	7—Womans League	8:00 to 10:30 P.M.	25
June	12—Building Inspectors Association	8:00 to 10:30 P.M.	35
June	13—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	15
June	18—Commissioner of Jurors	8:00 to 10:00 P.M.	
June	19—Jamaica Citizens Association	8:00 to 10:00 P.M.	10
June	20—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	20
June	21—Commissioner of Jurors	8:00 to 10:00 P.M.	
June	21—Jamaica Local Board	8:00 to 10:00 P.M.	40
June	27—Fourth of July Celebration Committee....	8:00 to 10:00 P.M.	40
June	28—Boy Scout Masters	8:00 to 10:30 P.M.	20
Sept.	4—Jamaica Citizens Association	8:00 to 10:00 P.M.	15
Oct.	2—Jamaica Citizens League	8:00 to 10:00 P.M.	18
Oct.	4—Womans League	8:00 to 10:30 P.M.	25
Oct.	9—Jamaica Citizens Association	8:00 to 10:00 P.M.	15
Oct.	9—Building Inspectors Association	8:00 to 10:00 P.M.	30
Oct.	16—Jamaica Citizens Association	8:00 to 10:00 P.M.	12
Nov.	1—Womans League	8:00 to 10:00 P.M.	35
Nov.	8—Jamaica Local Board	8:00 to 10:00 P.M.	40
Nov.	13—Jamaica Citizens Association	8:00 to 9:30 P.M.	14
Dec.	4—Jamaica Citizens Association	8:00 to 10:00 P.M.	12
Dec.	6—Womans League	8:00 to 10:00 P.M.	40
Dec.	11—Building Inspectors Association	8:20 to 9:50 P.M.	25
Dec.	18—Boy Scout Masters	8:00 to 9:30 P.M.	40
Dec.	18—Jamaica Citizens Association	8:00 to 10:00 P.M.	18
Dec.	18 to 31—Exemption Advisory Board	8:00 to 10:00 P.M.	

MAGISTRATE'S COURT, FAR ROCKAWAY

Jan.	5—Volunteer Firemens Association	7:30 to 10:30 P.M.	100
Mar.	2—Volunteer Firemens Association	8:00 to 9:45 P.M.	50
Mar.	21—Paymaster Finance Department		
	Paying snow shovelers	5:00 to 6:00 P.M.	35
July	2—Commissioner of Jurors	7:30 to 10:00 P.M.	140
Oct.	12—Volunteer Firemens Association	7:30 to 10:00 P.M.	50

Dec. 17 to 22—Exemption Board	7:00 to 9:50 P.M.	
	Average	25
Dec. 7—Volunteer Firemens Association	7:30 to 9:30 P.M.	75
Dec. 24 to 31—Exemption Advisory Board	7:30 to 10:30 P.M.	
	Average	20

INTERIOR BATH, EIGHTH STREET, L. I. CITY

PATRONAGE FOR THE YEAR 1917

Month	Males	Females	Total
January	2,552	456	3,008
February	1,776	278	2,054
March	2,063	393	2,456
April	2,532	442	2,974
May	3,093	494	3,587
June	4,098	1,436	5,534
July	7,826	2,172	9,998
August	6,905	2,301	9,206
September	3,737	968	4,705
October	3,160	898	4,058
November	2,930	784	3,714
December	2,447	593	3,040
	<hr/> 43,119	<hr/> 11,215	<hr/> 54,334

COMMENTS AND OBSERVATIONS

The activities of this Bureau are necessarily routine, no new buildings have been placed under my jurisdiction, and it is merely a case of maintaining the present buildings and offices in the best possible condition.

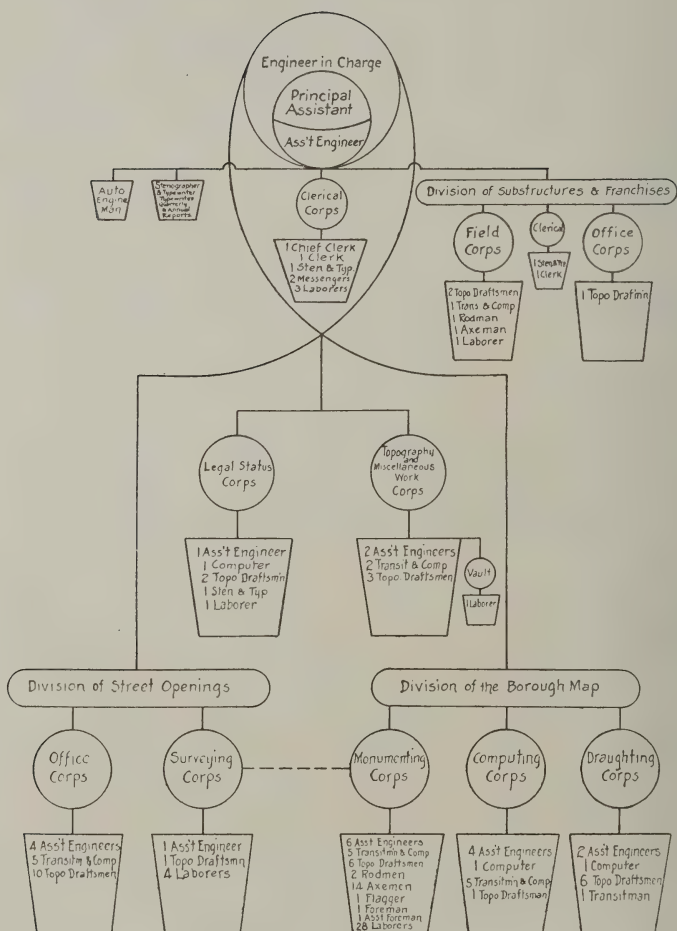
Supplying fuel for use in Public Buildings has occasioned much anxiety during the closing months of the year 1917, and the prospects for the coming year are most discouraging.

I have repeatedly suggested to the Budget Committee that a sufficient amount be appropriated for the purchase of coal to last until April 1st each year.

The coal bunkers in the various buildings are of sufficient capacity to hold more than a season's supply.

The Department of Parks has cooperated with this Bureau in supplying shrubbery and flowers for use in the plots adjoining Public Buildings. The employees of this Bureau have cared for the flower beds, trimmed shrubbery, cut grass and maintained the plots in an attractive manner during the summer months.

TOPOGRAPHICAL BUREAU

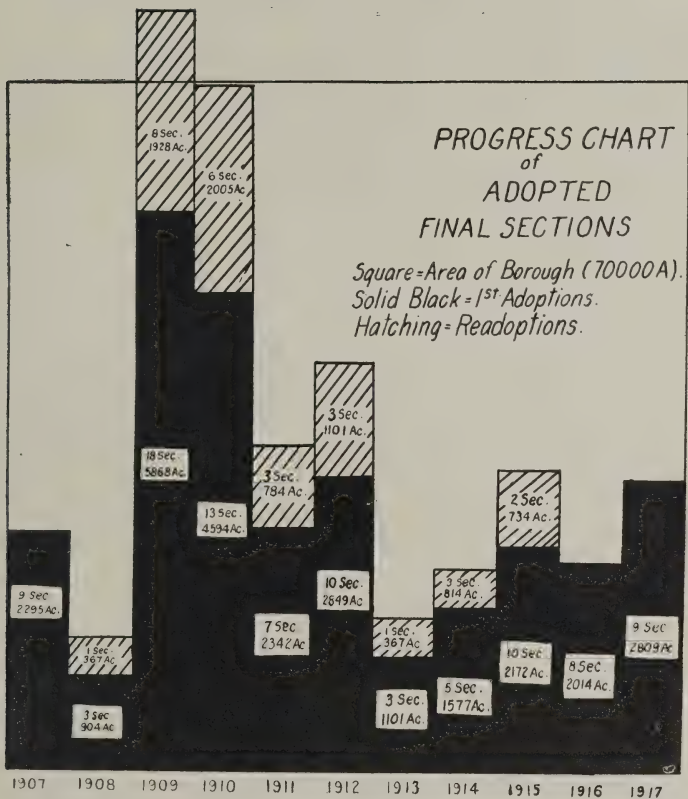


ORGANIZATION CHART

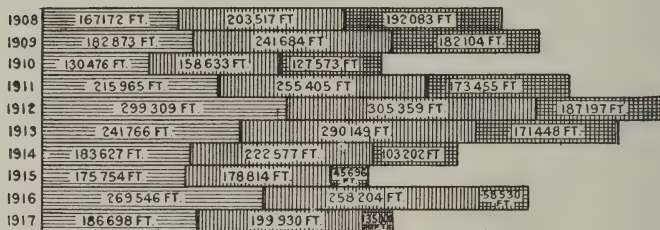
For a brief resume of the work of each Corps

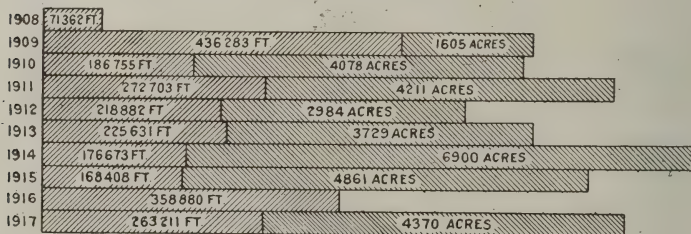
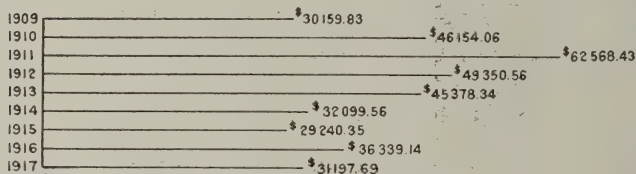
See page VII

"A"



"B"





RULE MAPS SHOWN THUS



DRAFT DAMAGE MAPS SHOWN THUS



PROFILE MAPS SHOWN THUS



FINAL DAMAGE MAPS SHOWN THUS



" BENEFIT " " " "



NOTE: Previous to 1909 the cost of Street Opening Maps was paid from Budget Appropriations or from Corporate Stock.

"C"

COMPARATIVE YEARLY STATEMENT

YEAR	TENTATIVE MAPS ADOPTED			FINAL SECTIONS ADOPTED			RULE		DRAFT DAMAGE		PROFILES		FINAL DAMAGE		FINAL BENEFIT	
	No		AREA IN ACRES	No		AREA IN ACRES	No		No		No		No		No	
	No		AREA IN ACRES	No		AREA IN ACRES	No		No		No		No		No	
1908	1	8 450	4	1 271	54	167 172	74	203 517	66	192 083	33	71 362	26			
1909			26	7796	69	182 873	66	241 684	49	182 104	27	436 283	25	1605		
1910			19	6599	40	130 476	45	158 633	36	127 573	52	186 755	57	4078		
1911	1	4 560	10	3 126	59	215 965	71	255 405	48	173 455	70	272 703	72	4211		
1912	4	13 730	13	3 950	69	299 309	82	305 359	52	187 197	70	218 882	52	2984		
1913	2	14 300	4	1 468	70	241 766	80	290 149	61	171 448	71	225 631	59	3729		
1914	2	5 500	6	2 391	42	183 627	51	222 577	35	103 202	51	176 673	52	6900		
1915	1	6 470	12	2 906	66	175 754	67	178 814	17	45 696	43	168 408	44	4861		
1916			8	2 014	85	269 546	87	258 204	8	58 530	123	358 880	85			
1917			9	2 809	63	186 698	83	199 930	1	35 000	106	263 211	105	4370		

YEAR	ALTERATION MAPS		MONUMENTS		FIELD WORK				LEGAL STATUS		EXPENDITURES	
	SPECIAL MAPS		SET		RE-SET		BUILDINGS LOCATED		FEET OF MEASUREMENTS		BUDGET AND CORPORATE STOCK	
	TRANSMITTED FOR ADOPTION	FOR FILING	SET	RE-SET	SET	RE-SET	FEET OF MEASUREMENTS	ANGLER TURNED	FEET OF STREET LEVELS	REPORTS	BUDGET AND CORPORATE STOCK	STREET AND PARK OPENING FUND
1908	17	9	1123	334	7048	8646 595	12714	277 949			\$ 318 828 58	
1909	25	17	832	466	6161	8070 960	9719	852 187		196	289 426 28	\$ 30 159 83
1910	25	18	570	634	3215	7722 357	9962	1753 372		312	222 956 91	46 154 06
1911	71	30	354	253	3114	6150 387	10121	275 734		960	159 506 11	62 568 43
1912	68	41	586	131	4399	7113 234	14736	985 004		1037	176 836 84	49 350 56
1913	90	54	604	185	3326	6085 248	11554	158 531		1224	191 726 77	45 378 34
1914	75	51	783	139	1446	6762 076	12404	446 040		1244	197 845 19	32 099 56
1915	70	66	1287	258	2627	6523 996	13785	771 764		1301	204 930 51	29 240 35
1916	73	63	1145	383	2269	6194 622	10736	108 450		1392		36 339 14
1917	68	62	1206	421	1665	4277 845	7962	232 900		1200	180 332 19	31 197 69

* Includes Special Reserve Bonds \$1000.00

Progress ^{of} Chart				Section No.	Forwarded To	Approved By
FINAL SECTIONS						
IN						
Course of Preparation						
Percentage Completed						
Survey	Computation	Draughting				
				1	Mar 4, 1914	
				41		
				49		
				53		
				54	May 31, 1916	
				55	Aug 21, 1917	
				57		
				58		
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				227	Oct 25, 1915	
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IE

REPORT OF THE WORK OF THE TOPOGRAPHICAL BUREAU FOR THE YEAR 1917.

Before entering into the details of the report, I think it well to call your attention to the fact that today it is necessary that we make a far more careful study of conditions affecting street design, than was the case only a few years ago, in order that our maps may receive the approval of the Board of Estimate and Apportionment.

This additional work, together with the fact that the Highway and Sewer Bureaus are constantly increasing their requests for detail grades, has made it very difficult for us to maintain, with our present greatly depleted force, the average output of the years immediately preceding.

However, I believe that an average summation of the work performed during the year 1917 will compare very favorably with that of previous years, although at the present time we have fourteen men in the service of the U. S. Government.

FINAL AND ALTERATION MAPS

During the year the Board of Estimate and Apportionment approved nine Final Sections (atlas sheets); eleven Special Final Maps, and fifty-six Alteration Maps. Within the same period we completed and forwarded to the Board for its approval, five Final Sections (atlas sheets); eleven Special Final Maps and fifty-seven Alteration Maps.

Of the maps approved by the Board, five Final Sections (atlas sheets), at the close of the year 1916; and the opening of the year 1918, finds in the hands of the Board, waiting its approval, four Final Sections (atlas sheets), twelve Special Final Maps, and fifty-three Alteration Maps.

We have, in course of preparation, forty-nine Final Sections (atlas sheets), (see Chart "E"), eight Special Final Maps, two being draughted, and six being computed; and thirty-four Alteration Maps, twenty-four being draughted, eight being computed and two being surveyed.

STREET OPENING PROCEEDINGS AND STREET OPENING MAPS

The Local Boards authorized the acquiring of title to thirty streets, and the Board of Estimate and Apportionment instituted proceedings to acquire title to thirty-six streets. Of the proceedings instituted by the Board of Estimate and Apportionment, twenty-seven were new proceedings, and nine were amended proceedings.

Street opening maps in thirty-nine proceedings, totaling 93,501 feet, were approved by the Board of Estimate and Apportionment during the year. We completed and forwarded to the Board, for its approval, during the year, forty-two Rule Maps, totaling 125,318 feet; forty-three Draft Damage Maps, totaling 116,667 feet, and one Profile Map totaling 3,500 feet.

To the Corporation Counsel we forwarded 17 Final Damage Maps, totaling 66,620 feet, and 19 Benefit Maps, totaling 4,370 Acres.

In course of preparation we have 29 Rule Maps, totaling about 57,420 feet, 33 Draft Damage Maps, totaling about 7,100 square feet, 87 Final Damage Maps, totaling about 196,091 feet, 48 Benefit Maps the average of which has not yet been completed.

GRADES

The requests for detail grades from the Highway and Sewer Bureaus, and from private surveyors, have increased to such an extent as to require practically the entire time of two, and some time three men, who were formerly employed in the preparation of Grade Charts.

During the year, detail grades were furnished for 205 streets and territorial areas; levels were run, notes reduced and plotted on 146 streets; profiles were

plotted for 71 streets and one territorial area. Studies for grade changes were made for seven different streets and areas covering about 350 acres.

The detail work incidental to the above-mentioned computations and studies has encroached upon the time of the men assigned to the preparation of Grade Charts to such an extent that none were completed during the year

CESSIONS

According to Chapter 606 of the Laws of 1915, the Board of Estimate and Apportionment has full power to accept or reject street cessions, and to fix the exemption from assessments that shall be accorded to grantors of accepted cessions.

For the guidance of property owners desiring to cede the bed of their streets to the City, the Board of Estimate and Apportionment has formulated a set of rules, copies of which may be obtained upon application to this office.

The rule that most immediately concerns this bureau is Article 5, paragraph III., which reads:

"The President of the Borough in which the property to be conveyed is located will, upon application from a grantor, prepare a technical description of the property, for incorporation in the deed, providing that proper data is submitted to him to show the relation of the bounding lines of the property to the street lines as laid out upon the City Map."

OLD RECORDS

During the year our efforts at copying the old records of the civil divisions of Queens have been concentrated entirely upon those of Whitestone and College Point, and, while progress is being made, it must of necessity continue to be slow, due to the fact that we have only one man employed on the work, and he reports that no help whatever has been given him by the Comptroller.

We still continue to be badly handicapped by lack of a complete copy of these old records, as we have continually to refer to them in the preparation of reports pertinent to public improvements.

SUBSURFACE STANDARDIZATION

The Board of Estimate and Apportionment has not yet taken action relative to the improval of our standard subsurface plans; the matter is still in the hands of the Consulting Engineers, to whom it was referred by the Board. However, practically all of the public service corporations in the Borough, recognizing the value of these plans, are installing their subsurface structures in accordance therewith. Approximately 90 per cent. of all subsurface installation are being built to conform with this standard plan.

SPECIAL ACTIVITIES

Among the numerous special duties undertaken by the Bureau during 1917, has been the preparation of the Rockaway Peninsula Map, showing the location of the shore line at various periods dating from 1803 to 1917.

This map covers the entire Peninsula from Rockaway Point to the Nassau County Line.

A House-numbering Map for practically the entire Bayside section has been completed and adopted by the Board of Aldermen; while the map for the Jamaica section is now in course of preparation.

A very extensive study was made relative to the establishment of three new comfort stations within the Borough.

Maps were made showing tentative locations decided upon for Flushing, Ridgewood, and the Bridge Plaza.

A considerable number of surveys and maps were made for the use of the

Corporation Counsel in sustaining arguments for public improvements, for example: Ashland Street Proceeding.

Expert testimony in accident and other cases was frequently given, and 102 reports were made relative to street dedications, for which opinions were subsequently rendered.

Photographs were made, and reports rendered to the Board of Aldermen and to the Board of Estimate and Apportionment, showing the need for many physical improvements—pavements, sewers, etc.

A large number of property subdivision maps were submitted to us, under the new law, effective May 11, 1916, which requires that such maps be approved by the Borough President and the Board of Estimate and Apportionment, before being filed with the County Clerk. These were examined and approved or disapproved by us, depending upon their agreement or disagreement with our maps.

Reports were written and maps made showing conditions within areas affected by petitions for changes in the maps of Use, Height, and Area Zones, as adopted by the Board of Estimate and Apportionment July 25, 1916.

THE PUBLIC

To better serve the interests of the Public, and to promote the welfare of the Borough of Queens, we are always ready and willing to consider and to apply, where practicable, suggestions and criticisms by the public. And, for the use of the public, all the maps and information in the possession of this office are at their disposal. Lithograph copies of all the more important maps can be purchased at the nominal price fixed by the Board of Estimate and Apportionment; blue prints of the maps which have not been lithographed can be had for the cost of printing, or sketches can be made by anyone. All the information concerning street titles, and the procedure for ceding and dedicating them to the City can also be had at this bureau.

OFFICE ORGANIZATION

The employees of the Topographical Bureau on December 31, 1917, numbered *98 Technical men, 39 per diem men, and a clerical force of 8—total 145.

The total cost for maintenance for the year was \$211,529.88; divided as follows: \$178,109.62 chargeable to Budget; \$2,222.57 chargeable to Special Revenue Bonds (Military); \$31,197.69 chargeable to Street and Park Opening Fund.

*—Includes Men in the Service of the U. S. Government

A few words regarding the organization of the Topographical Bureau may facilitate a better understanding of the details contained in the following pages of this report:

The work of this office falls naturally into three divisions: Division of the Borough Map. Division of Street Openings. Division of Substructures and Franchises.

The duty of the Division of the Borough Map is, quoting from the Charter, "To prepare a map of that part of the territory embraced within the Borough, of which a map or plan has not heretofore been finally established and adopted." the duty of the Division of Street Openings is to make the surveys and maps required by the Commissioners of Estimate and Assessment in Street Opening Proceedings, and the duty of the Division of Substructures and Franchises is to survey and record all substructures in the streets of the Borough, and to be cognizant of all franchises affecting the Borough.

For the economic and efficient prosecution of the work of the bureau, each of these divisions is further subdivided as follows:

DIVISION OF THE BOROUGH MAP

Monumenting Corps—Charged with all the surveys and field work necessary for the preparation of the final sections (atlas sheets), the special final maps and the alteration maps.

Computing Corps—Charged with all the computations necessary for the preparation of final sections (atlas sheets), the special final maps, and the alteration maps.

Draughting Corps—Charged with all the draughting necessary for the preparation of final sections (atlas sheets), the special final maps, and the alteration maps; with grade studies, and the computations and draughting necessary for the preparation of the grade charts.

DIVISION OF STREET OPENINGS

Surveying Corps—Charged with all the surveys necessary to the preparation of the maps required by the Commissioners of Estimate and Assessment.

Office Corps—Charged with all the computations and draughting necessary to the preparation of the maps required by the Commissioners of Estimate and Assessment.

DIVISION OF SUBSTRUCTURES AND FRANCHISES.

Field Corps—Charged with a subsurface survey of the streets of the Borough.

Office Corps—Charged with recording all the data and information relating to the subsurface of the streets of the Borough; with the assignment of subsurface space for the installation of improvements therein; with the approval of permits affecting the subsurface of streets, and with recording all franchises affecting the Borough of Queens.

In addition to the several corps mentioned above, we have two small corps—one I have termed the Legal Status Corps, and the other, the Topography and Miscellaneous Work Corps. Each of these corps is closely interrelated with all the other corps.

The Legal Status Corps is charged with gathering all information relating to street titles, and reporting thereon to the Local Boards, and such other departments and citizens as may desire this information; with the preparation of reports to the Corporation Counsel, for opinions of street dedications; with the preparation of the Annual and Quarterly Reports of the Bureau, and with the answering of a large portion of the Bureau's correspondence, and with its custody and filing.

The Topography and Miscellaneous Work Corps is charged with the plotting of topography; with the estimation of property damaged which will result from street widenings; with the custody, indexing and filing of all maps, and with miscellaneous draughting, special studies, etc.

DIVISION OF THE BOROUGH MAP

FINAL SECTIONS (ATLAS SHEETS) APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT

No. 68. Broadway—bounded approximately by 157th (17th-Eagles) Street, 32nd (Myrtle-Connorton) Avenue, 160th (20th Hoogland) Street, 25th Drive (Newcastle Avenue-Newport Avenue), 163rd (23rd-Kendall) Street, 24th (Colt) Avenue, Cross Island Boulevard, (Whitestone Road-Beechhurst Avenue); 25th (Stuyvesant-Spofford) Avenue, Utopia Parkway, 28th (Parkman) Avenue, Colquitt Street, 32nd (Myrtle-Connorton) Avenue, Cross Island Boulevard (Beechhurst Avenue-Whitestone Boulevard), 190th (34th-Vineland) Street, Crocheron Avenue, 163rd (23rd-Kendall) Street, and 35th Avenue (State Street). (367 acres). Approved December 7.

No. 75. Auburndale—bounded approximately by Utopia Parkway (33rd Street), 33rd (Mitchell) Avenue, Cross Island Boulevard (Whitestone Boule-

vard-Beechhurst Avenue), 32nd (Connorton) Avenue, 20th (Van Fossen-Greelyville) Street, 34th (Hillcrest) Avenue, 208th (Fairview-Jevington) Street, 36th (Lamartine-26th) Avenue, Gardner Street (Lonsdale Avenue) 39th (Ashburton-29th) Avenue, 206th Street (Linwood Street-Linwood Avenue), 42nd Avenue, (Palace Boulevard-32nd Avenue), 202nd Street, (Odell Avenue) Northern Boulevard (Jackson Avenue-Broadway) 192th Street, (Lancaster Avenue) and Station Road (Baldwin Street). (367 acres). Approved December 14.

No. 127. Jamaica—bounded approximately by 123rd Street (Passaic Street-South Vine Street), 107th Avenue (Roanoke Avenue-Mill Street), 128th Street (Miriam Avenue, Wickes Street), Liberty Avenue, 134th Street (Baker Avenue), 102nd Avenue (Blanco Place), Van Wyck (Avenue), Boulevard, Lloyd Place, Remington Street (West Street), South (Street) Road, Pinegröve Street (Allan Street), Lux (Place) Road, Inwood Street, Brinkerhoff Avenue, Freeville Street, 114th Avenue (Ulster Avenue), 139th Street, 115th Avenue (Vistula Avenue) Van Wyck (Avenue) Boulevard, 116th Avenue (Warburton Avenue), 132nd Street (Atfield Avenue), 115th Avenue (Vistula Avenue), 128th Street (Warren Street) 114th Avenue (Ulster Avenue), 126th Street, (Shoshone Street), 111th Avenue (Tuckahoe Avenue), 124th Street, (Quebec Street) and Suwanee Avenue (Sutter Avenue), (367 acres). Approved November 9.

No. 128. Jamaica—bounded approximately by Van Wyck Boulevard (Van Wyck Avenue), 101st Avenue, (Jerome Avenue-Broadway), Remington Street (97th) Beaufort Avenue, Brisben Street (Longfellow Avenue), 95th (Chichester) Avenue, Liverpool (Bryant) Avenue, 94th Avenue (Rocton Street) (Johnson Avenue), Sutphin Boulevard (Sutphin Road), Archer Avenues (Archer Street), 148th (Branford, Tyndal) Street, Jamaica Avenue, 151st (Ezra Division) Street, Archer Avenue, (Archer Street), Carlisle (Church) Street, South Road (South Street), 160th (Newark) Washington Street, 108th Avenue (Cumberland Street), 155th Street (Phraner Avenue), 109th Avenue (Lambertville Avenue, Pacific Street), Sutphin Boulevard (Sutphin Road), Glassboro Avenue (Maple Terrace), Inwood (Baltic) Street, Lakewood (Lincoln Avenue), Pinegrove (Allen) Street, and Liberty Avenue. (367 acres). Approved June 8.

No. 136. Cedar Manor—bounded approximately by Glassboro Avenue, (Maple Terrace), Sutphin Boulevard (Sutphin Road, Rockaway Turnpike), 109th Avenue (Lambertville Avenue, Pacific Street), 155th Street (Phraner Avenue, Elder Avenue), 108th Avenue, (Cumberland Street), 160th Street (Newark Street, Washington Street) 107th Avenue, (Atlantic Street, Mandsey Street) New York Boulevard (Avenue) 108th Avenue (Cumberland Street), 164th Place (Belleville Street, Brooklyn Avenue) Brinkerhoff Avenue (State Street), 168th Street (Sweet Street), Sayres Avenue (Bergenfields Street, Baisley Street), Merrick Road, 114th Avenue (Ulster Avenue), 166th Street (Cedarville Avenue, Burr Avenue), 115th Avenue (Undercliff Avenue, Fischer Street) New York Boulevard (Avenue) 116th Avenue (Jacobs Avenue, Water Street) (Warburton Avenue), 155th Street (Phraner Avenue, Elder Avenue), 115th Drive (Vaughan Avenue), Sutphin Boulevard (Sutphin Road, Rockaway Turnpike), 114th (Ulster) Avenue, 147th Street and Liverpool (Wyckoff) Street. (367 acres). Approved December 21.

No. 137. Cedar Manor—bounded approximately by 116th (Warburton) Avenue, Van Wyck (Avenue), Boulevard, 115th (Vistula) Avenue, 139th (Brookfield) Street, 114th (Ulster) Avenue, 143rd (Freeville) Street, 111th (Tuckahoe) Avenue, 147th (Liverpool) Street, 114th (Ulster) Avenue, Sutphin Boulevard (Sutphin Road, Rockaway Turnpike), 115th Drive (Vaughan Avenue), 155th Street, (Phraner Avenue) (Elder Avenue), 118th (Selver) Avenue, 153rd

Street, 119th Avenue, Sutphin Boulevard (Sutphin Road, Rockaway Turnpike), 120th (Horan, Zuider) Avenue, 146th (Kenmore) Street, 123rd Avenue (Maple Street, Latting Avenue), 145th Street, (Hamburg Avenue), Rockaway (Road) Boulevard, 142nd Place, (Kaiser Avenue), 123rd Avenue, (Latting Avenue, Maple Street), 140th Street (Caledonia Street, Ashby Avenue), 120th (Horan, Zuider) Avenue, Van Wyck (Avenue) Boulevard, 117th (Yukon) Avenue, and 134th Street, (Baker Avenue). (367 acres). Approved September 16.

No. 198. Belle Harbor—bounded approximately by Jamaica Bay, Beach 123rd Street, Newport Avenue, Beach 128th Street, Rockaway Beach Boulevard, Beach 132nd Street, Ocean Promenade, Beach 137th Street, Rockaway Beach Boulevard, Newport Avenue, and Adirondack Boulevard. (212 acres). Approved May 11.

No. 199. Neponsit—bounded approximately by Seaside Park, the United States Bulkhead Line of Jamaica Bay, Beach Channel Drive, Cronston Avenue, Adirondack Boulevard, Newport Avenue, Beach 139th Street, Rockaway Beach Boulevard, 136th Street, and the Atlantic Ocean. (240 acres). Approved May 11.

No. 201. Rockaway Park—bounded approximately by Beach 135th Street, Rockaway Beach Boulevard, Beach 128th Street, Newport Avenue, Beach 125th Street, Cronston Avenue, Beach Channel Drive, Beach 121st Street, Newport Avenue, Beach 119th Street, Rockaway Beach Boulevard, Beach 117th Street, and the Atlantic Ocean. (155 acres). Approved May 11.

FINAL SECTIONS (ATLAS SHEETS) BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

No. 1. Laurel Hill.	No. 55. College Point.
No. 54. College Point.	No. 227. Far Rockaway.

FINAL SECTIONS (ATLAS SHEETS) COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

No. 55. College Point.	No. 136. Cedar Manor.
No. 68. Broadway.	No. 137. Cedar Manor.
No. 75. Auburndale.	

FINAL SECTIONS (ATLAS SHEETS) CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT, AND FILED AT THIS OFFICE

No. 56. College Point.	No. 199. Neponsit.
No. 61. Whitestone.	No. 201. Rockaway Park.
No. 128. Jamaica.	No. 202. Rockaway Park.
No. 188. Ramblersville.	No. 216. Arverne.
No. 198. Belle Harbor.	No. 217. Seaside.

FINAL SECTIONS (ATLAS SHEETS) IN COURSE OF PREPARATION Being Surveyed.

No. 41. Queensboro Hill	50% completed	No. 70. Whitestone.	60% completed
No. 49. College Point	80% completed	No. 74. Whitestone	70% completed
No. 53. College Point.	80% completed	No. 76. Auburndale	25% completed
No. 57. Whitestone	90% completed	No. 77. Kissena Park	30% completed
No. 58. Whitestone Landing.	90% completed	No. 78. Kissena Park	80% completed
No. 59. Whitestone	60% completed	No. 81. Jamaica	10% completed
No. 60. Whitestone	80% completed	No. 85. Bayside	80% completed
No. 65. Flushing	50% completed	No. 86. Bayside	60% completed
No. 69. Whitestone	95% completed	No. 120. Jamaica	25% completed
		No. 130. Jamaica	50% completed

No. 133. Hollis	35% completed	No. 154. Jamaica	20% completed
No. 134. Hollis	95% completed	No. 159. St. Albans	15% completed
No. 138. Jamaica	90% completed	No. 161. Queens	40% completed
No. 139. Jamaica	90% completed	No. 215. Hammels	90% completed
No. 140. Baisley Pond	95% completed	No. 219. Arverne	90% completed
No. 141. St Albans	95% completed	No. 220. Arverne	90% completed
No. 142. St. Albans	75% completed	No. 228. Edgemere	90% completed
No. 143. Hollis	70% completed	No. 229. Edgemere	90% completed
No. 144. Hollis	85% completed	No. 230. Edgemere	100% completed
No. 148. Queens	30% completed	No. 232. Far Rockaway	95% completed
No. 151. Queens	15% completed	No. 233. Far Rockaway	80% completed
No. 152. Springfield	20% completed	No. 234. Far Rockaway	90% completed
No. 153. Jamaica Park			
South	15% completed		

Being Computed.

No. 53. College Point	60% completed	No. 130. Jamaica	35% completed
No. 57. College Point	55% completed	No. 134. Hollis	70% completed
No. 59. Whitestone	25% completed	No. 140. Baisley Pond	35% completed
No. 60. College Point	90% completed	No. 141. St. Albans	10% completed
No. 70. Whitestone	5% completed	No. 230. Edgemere	80% completed
No. 74. Whitestone	39% completed	No. 232. Far Rockaway	30% completed
No. 85. Bayside	10% completed	No. 233. Far Rockaway	25% completed
No. 120. Jamaica	15% completed	No. 234. Far Rockaway	16% completed

Being Draughted.

No. 69. Whitestone	Not started	No. 129. Jamaica	85% completed
No. 121. Dunton	Not started	No. 135. Jamaica	85% completed

SPECIAL FINAL MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT

- Map showing the street system for the territory bounded by 184th Street, 104th Avenue, Henderson Boulevard, Farmers Boulevard, 99th Avenue, Cross Island Boulevard, 112th Avenue, 194th Street, 110th Road, Farmers Boulevard and Liberty Avenue. T. B. No. 540. Approved June 8.
- Map establishing the lines and grades of ULSTER AVENUE, from Sutphin Road to Smith Street. T. B. No. 553. Approved April 13.
- Map establishing the lines and grades of BELL AVENUE, from Crocheron Avenue to Jackson Avenue. T. B. No. 554. Approved Jan. 19.
- Map establishing the lines and grades of JAMAICA BAY BOULEVARD, from Sheridan Avenue to Rockaway Beach Boulevard. T. B. No. 577. Approved May 25.
- Map establishing the lines of PHRANER AVENUE, from Smith Street to Yukon Avenue, and of FREEHOLD STREET, from Ulster Avenue to Baisley Avenue. T. B. No. 593. Approved April 13.
- Map establishing the lines and grades of UNION HALL STREET, from South Street to Brinkerhoff Avenue. T. B. No. 594. Approved June 22.
- Map establishing the lines and grades of 123RD STREET, from 12th Avenue to 13th Avenue. T. B. No. 610. Approved November 9.
- Map establishing the lines and grades of HOME LAWN AVENUE, from Hillside Avenue to Highland Avenue. T. B. No. 695. Approved May 25.
- Map establishing the lines and grades of HOLLIS AVENUE, from Jamaica Avenue to the Long Island Railroad. T. B. No. 696. Approved June 29.

Map establishing the lines and grades of EDMERE, Beach 35th Street, and Cedar Avenue, L. I. R. R. and Sprayview Avenue. T. B. No. 705, Approved June 22.

Map for the territory bounded by 130th Street, 31st Avenue, Willets Point Boulevard, and 81st Road. T. B. No. 713. Approved June 8.

SPECIAL FINAL MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT
PENDING APPROVAL.

Map establishing the lines and grades of PUNTINE STREET, from South Street to Cumberland Street. Dated May 1, 1912. T. B. No. 300.

Map establishing the street system for the QUEENS-HOLLIS section. Dated May 14, 1914. T. B. No. 458.

Map establishing the lines and grades of OBERLIN STREET, from Mulford Avenue to Willets Point Road. Dated October 8, 1915. T. B. No. 545. Referred to City Plan Committee May 12, 1916.

Map establishing the lines and grades of UNION HALL STREET, from South Street to Brinkerhoff Avenue. Dated December 11, 1916. T. B. No. 548. Referred back to Borough President April 28, 1916.

Map establishing the lines and grades of OCEAN PROMENADE, from Beach 126th Street to 100 feet west of Proposed Park. Dated May 19, 1916. T. B. No. 601. Referred to City Plan Committee. Nov. 3, 1916.

Map establishing the lines and grades of 98TH AVENUE, from 190th Street to 195th Street. Dated March 18, 1916. T. B. No. 621.

Map establishing the lines and grades of 129TH (Tolland) STREET, from 20th Avenue to 18th Avenue. Dated June 13, 1916. T. B. No. 643.

Map establishing the lines and grades of BAISLEY BOULEVARD, from Rockaway Boulevard to Byron Street, and of BYRON STREET, from Baisley Boulevard to Cornell Basin. Dated March 30, 1917. T. B. No. 659.

Map establishing the lines and grades of BEACH 130TH STREET, from Beach Channel Drive to Ocean Promenade. Dated July 18, 1916. T. B. No. 664.

Map establishing the lines and grades of NORTH CONDUIT AVENUE, from Baisley Boulevard to 132nd Street, and of 132ND STREET, from North Conduit Avenue to 150th Avenue. T. B. No. 666.

Map establishing the lines and grades of McNEIL BOULEVARD, from Dabney Avenue to Brunswick Avenue. Dated September 5, 1916. T. B. No. 675.

Map establishing a PUBLIC PARK in 18th Avenue, from 126th Street to 127th Street. Dated May 1, 1917. T. B. No. 686.

SPECIAL FINAL MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE
AND APPORTIONMENT FOR APPROVAL.

Map establishing the lines and grades of BAISLEY BOULEVARD, from Rockaway Boulevard to Byron Street, and of BYRON STREET, from Baisley Boulevard to Cornell Basin. T. B. No. 659.

Map establishing the lines and grades of NORTH CONDUIT AVENUE, from Baisley Boulevard to 132nd Street, and of 132ND STREET, from North Conduit Avenue to 150th Avenue. T. B. No. 666.

Map establishing a PUBLIC PARK in 18th Avenue, between 126th Street and 127th Street, Third Ward. T. B. No. 686.

Map establishing the lines and grades of PUNTINE STREET, from Jamaica Avenue to Shelton Avenue. T. B. No. 687. Completed, but not yet forwarded to the Board of Estimate and Apportionment.

Map altering the lines and grades of 190TH STREET, from Holliswood Avenue to Hollis Avenue, and establishing the lines and grades of HOLLIS AVENUE, from Jamaica Avenue to 99th Avenue. T. B. No. 696.

- Map establishing the lines and grades of HOME LAWN AVENUE, from Hill-side Avenue to Highland Avenue. T. B. No. 695.
- Map establishing the lines and grades of EDGEMERE, between Beach 35th Street and Cedar Avenue, L. I. R. R. and Sprayview Avenue. T. B. No. 705.
- Map establishing the lines and grades of COLLEGE POINT CAUSEWAY, from 129th Street to Willets Point Boulevard. T. B. No. 713.
- Map establishing the lines and grades of JAMAICA BAY BOULEVARD, across Jamaica Bay. T. B. No. 737.
- Map showing a Sewer Easement in 72ND AVENUE, from 135th Street to 147th Street. T. B. No. 738.
- Map showing a street system for HOLLIS, North of the L. I. R. R. T. B. No. 771.

SPECIAL FINAL MAPS CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT,
AND FILED AT THIS OFFICE.

- Map showing street system for the territory bounded by 184th Street, 104th Avenue, Henderson Boulevard, Farmers Boulevard, 99th Avenue, Cross Island Boulevard, 112th Avenue, 194th Street, 110th Road, Farmers Boulevard and Liberty Avenue. Dated December 23, 1916. T. B. No. 540.
- Map establishing the lines and grades of ULSTER AVENUE, from Sutphin Road to Smith Street. Dated April 4, 1916. T. B. No. 553.
- Map establishing the lines and grades of BELL AVENUE, from Crocheron Avenue to Jackson Avenue. Dated March 28, 1916. T. B. No. 554.
- Map establishing the lines and grades of PHRANER AVENUE, from South Street to Yukon Avenue, and of FREEHOLD STREET, from Ulster Avenue to Baisley Avenue. Dated March 31, 1916. T. B. No. 593.
- Map establishing the lines and grades of UNION HALL STREET, from South Street to Brinkerhoff Avenue. Dated Sept. 27, 1916. T. B. No. 594.
- Map establishing the lines and grades of HOLLIS AVENUE, from Jamaica Avenue to the Long Island Railroad, and altering the lines and grades of 190TH STREET, from Holliswood Avenue to Hollis Avenue. Dated April 5, 1917. T. B. 696.
- Map establishing the lines and grades for EDGEMERE, between Beach 35th Street and Cedar Avenue, L. I. R. R. and Sprayview Avenue. Dated February 9, 1917. T. B. No. 705.
- Map establishing the lines and grades of COLLEGE POINT CAUSEWAY, from 129th Street to Willets Point Boulevard. Dated March 28, 1917. T. B. No. 713.

SPECIAL FINAL MAPS WITH THE BOARD OF ESTIMATE AND APPORTIONMENT FOR
CERTIFICATION AND FILING

- Map establishing the lines and grades of 123RD STREET, from 12th Avenue to 13th Avenue. Dated June 9, 1919. T. B. No. 610.

SPECIAL FINAL MAPS NOT COMPLETED

Being surveyed. (None).

Being computed.

- POPPENHAUSEN AVENUE: Beechhurst Avenue to Bell Avenue. T. B. No. 544.
- BEACH 71ST STREET: L. I. R. R. to Amstel Boulevard. T. B. No. 550.
- PARKMAN AVENUE: Bell Avenue to Bulkhead Line of Little Neck Bay. T. B. No. 558.
- CONCH BASIN ELIMINATION; and establishment of one to the west of Norton's Creek. T. B. No. 559.

JONATHAN STREET: Oakridge Avenue to Ridgeway Avenue. T. B. No. 590.
FOSTERS MEADOW ROAD: Rockaway Turnpike to 2000 ft. northerly.
T. B. Nos. 714-715.

Being draughted.

JAMAICA BAY BOULEVARD: Sheridan Avenue to Beach Channel Drive.
T. B. No. 737.

Completed, but not yet forwarded to the Board of Estimate and Apportionment.

Map for the territory bounded by Jamaica Avenue, Cross Island Boulevard, 99th Avenue, and Hollis Avenue T. B. No. 771. Completed, but not yet forwarded to the Board of Estimate and Apportionment.

GRADE CHARTS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT
PENDING APPROVAL

No. 10. Woodside

No. 11. Woodside.

GRADE CHARTS IN COURSE OF PREPARATION.

No. 30. Evergreen	65% completed	No. 111. Woodhaven	60% completed
No. 62. Murray Hill	20% completed	No. 118. Richmond Hill	57% completed
No. 110. Brooklyn		No. 119. Kew Gardens.	Only started.
Manor	25% completed		

ALTERATION MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

Map showing a change in the street system heretofore laid out within the territory bounded by South Railroad Avenue, Card Place, Corona Avenue, and Hampton Street. Dated January 11, 1917. T. B. No. 475.

Map altering the grades of CRESCENT STREET, from Harris Avenue to South Jane Street. Dated January 23, 1917. T. B. No. 531.

Map altering the lines of WOODHAVEN AVENUE, from Atlantic Avenue to Rockaway Boulevard. Dated August 25, 1915. T. B. No. 536.

Map establishing the lines and grades of JAMAICA AVENUE, from Roseville Avenue to Cliffside Avenue. Dated October 9, 1915. T. B. No. 539.

Map altering the lines and grades of the JUNIPER SWAMP section. Dated March 15, 1917. T. B. No. 567.

Map showing a change in the street system heretofore laid out within the territory bounded by Nagy Street, Nassau Avenue, Thew Avenue, Whitlock Avenue, Corinth Avenue, and Eliot Avenue. Dated May 20, 1916. T. B. No. 585.

Map altering the lines and grades of SHERWOOD STREET, from Rowan Avenue to Lenox Avenue. Dated April 1, 1916. T. B. No. 591.

Map altering the lines of LIBERTY AVENUE, from Church Street to Lefferts Avenue. Dated November 12, 1915. T. B. No. 597.

Map altering the lines and grades of 95TH AVENUE, from 109th Street to 116th Street. Dated June 8, 1916. T. B. No. 606.

Map showing an extension to 86TH AVENUE, from 96th Street to 98th Street, and the elimination of 85TH ROAD, from 96th Street to 98th Street. Dated February 8, 1917. T. B. No. 619.

Map altering the grades of BEACH 123RD STREET, from Beach Channel Drive to Ocean Promenade. Dated April 10, 1916. T. B. No. 622.

Map altering the grades of CHICKERING PLACE, from Alice Street to Jackson Avenue, and of STATE STREET, from Boerum Avenue to Ziegler Avenue. Dated April 21, 1916. T. B. No. 623.

Map altering the lines and grades of CLINTON AVENUE, from Hobson Avenue to Montgomery Avenue. Dated June 28, 1916. T. B. No. 628.

- Map altering the grades of WILTON AVENUE, from Glasser Street to Cooper Avenue. Dated April 7, 1916. T. B. No. 631.
- Map altering the lines and grades of GREENWOOD AVENUE, from Jerome Avenue to the Conduit. Dated Nov. 23, 1916. T. B. No. 637.
- Map altering the grades of NELSON AVENUE, from Buckley Street to Bragaw Street. Dated May 6, 1916. T. B. No. 638.
- Map altering the grades of FOREST AVENUE, from Grove Street to Gates Avenue, and of LINDEN STREET, from Grandview Avenue to Prospect Avenue. Dated November 20, 1916. T. B. No. 639.
- Map altering the lines of 47TH STREET, from Astoria Avenue to Haynes Avenue. Dated June 7, 1916. T. B. No. 640.
- Map altering the lines and grades of PRALL PLACE, from 43rd Street to Way Avenue. Dated July 31, 1916. T. B. No. 641.
- Map altering the grades of 34TH AVENUE, from 149th Place to 150th Place, and of 150TH STREET, from 33rd Avenue to 35th Avenue. Dated June 12, 1916. T. B. No. 642.
- Map altering the lines and grades of GRIFFITH AVENUE, from Central Avenue to Metropolitan Avenue. Dated March 13, 1917. T. B. No. 651.
- Map altering the grades of 9TH STREET, from East Avenue to Jackson Avenue. Dated June 9, 1916. T. B. No. 653.
- Map altering the grades of HUNTERS POINT AVENUE, from Harold Avenue to Bragaw Street. Dated March 27, 1917. T. B. No. 654.
- Map altering the grades of AUDLEY STREET, from 84th Avenue to Abingdon Road. Dated November 28, 1916. T. B. No. 658.
- Map altering the grades of GUNTHER STREET, from Alburtis Avenue to 51st Street, and of ALBURTIS AVENUE, from Lake Street to Havemeyer Street. Dated July 17, 1916. T. B. No. 661.
- Map altering the grades of 77TH STREET, from 88th Road to 89th Avenue. Dated July 14, 1916. T. B. No. 662.
- Map altering the grades of 46TH STREET, from Polk Avenue to Roosevelt Avenue, and of SACKETT STREET, from Alburtis Avenue to 46th Street. Dated July 15, 1916. T. B. No. 663.
- Map altering the lines and grades of BARCLAY AVENUE, from 150th Street to 156th Street. Dated Sept. 1, 1916. T. B. No. 668.
- Map altering the lines and grades of 7TH AVENUE, from Riker Avenue to the Bulkhead Line of the East River. Dated October 6, 1916. T. B. No. 669.
- Map altering the lines and grades of PITKIN AVENUE, from 77th Street to Sutter Avenue. Dated October 20, 1916. T. B. No. 678.
- Map altering the grades of HUGHES STREET, from Forest Avenue to Anthon Avenue. Dated Sept. 25, 1916. T. B. No. 681.
- Map altering the grades of 6TH STREET and 7TH STREET, from Stryker Avenue to Polk Avenue. Dated November 21, 1916. T. B. No. 685.
- Map altering the grades of KINGSLAND AVENUE, from Junction Avenue to Tiemann Avenue. Dated November 29, 1916. T. B. No. 692.
- Map altering the lines and grades of LURTING STREET, from Morris Avenue to Sanford Avenue. Dated May 4, 1917. T. B. No. 693.
- Map altering the grades of WYCKOFF AVENUE, from Halsey Street to Cooper Avenue. Dated Jan. 31, 1917. T. B. No. 699.
- Map altering the grades of 127TH STREET, from Jamaica Avenue to Hillside Avenue. Dated Feb. 2, 1917. T. B. No. 700.
- Map altering the lines of AGNES PLACE, from Myrtle Avenue to Copeland Avenue. Dated Jan. 31, 1917. T. B. No. 702.
- Map altering the lines of 91ST AVENUE, from 76th Street to 84th Street. Dated March 17, 1917. T. B. 703.

- Map showing an extension to 25TH STREET, from Berrian Avenue to the Bulkhead Line. Dated Feb. 23, 1917. T. B. No. 704.
- Map altering the grades of EDSALL AVENUE, from McComb Place to Central Avenue. Dated March 29, 1917. T. B. No. 709.
- Map altering the grades of 80TH STREET, from 86th Avenue to Jamaica Avenue. Dated April 20, 1917. T. B. No. 716.
- Map altering the grades of KOERNER STREET, from Queens Boulevard to the L. I. R. R. Dated June 7, 1917. T. B. No. 718.
- Map altering the grades of OLMSTED PLACE, from Edsall Avenue to Indiana Place. Dated April 19, 1917. T. B. No. 719.
- Map altering the grades of 91ST STREET, from Park Lane to 85th Road, and of 85TH AVENUE, from 91st Avenue to Woodhaven Avenue. Dated May 10, 1917. T. B. No. 721.
- Map altering the grades of EPSILON PLACE, from Cooper Avenue to Myrtle Avenue. Dated May 19, 1917. T. B. No. 722.
- Map altering the grades of 13TH AVENUE, from Jamaica Avenue to a point 355 ft. south, and of JAMAICA AVENUE, from 12th Avenue to 13th Avenue. Dated May 11, 1917. T. B. No. 723.
- Map altering the grades of NEW YORK AVENUE, from Branchville Place to Baisley Avenue. Dated May 3 1917. T. B. No. 724.
- Map altering the lines and grades of BYRD STREET, from Crommelin Avenue to Peck Avenue. Dated May 25, 1917. T. B. No. 726.
- Map altering the lines of BELL AVENUE, from 29th Avenue to Jackson Avenue. Dated May 17, 1917. T. B. No. 727.
- Map altering the lines of WOODSIDE AVENUE, from Jackson Avenue to Dreyer Avenue. Dated July 12, 1917. T. B. No. 731.
- Map altering the grades of LOTUS AVENUE, from Glasser Street to Cooper Avenue. Dated May 29, 1917. T. B. No. 733.
- Map altering the lines of LOTUS AVENUE from Glasser Street to Cooper street. 46th Street from Roosevelt Avenue to old Spruce Street. Dated June 14, 1917. T. B. No. 734.
- Map showing the curbs at the intersection of Hoyt, Flushing and Second Avenues. Dated August 10, 1917. T. B. No. 746.
- Map altering the grades of CAMERON TERRACE, from Grout Avenue to Woodside Avenue. Dated October 25, 1917. T. B. No. 765.

ALTERATION MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT
PENDING APPROVAL

- Map establishing the pier and bulkhead lines of NEWTOWN CREEK, Maspeth Creek, Dutch Kills Creek, East River, Bowery Bay, and Flushing Bay. T. B. No. 308.
- Map altering the grades of RENE PLACE, from Grandview Avenue to Metropolitan Avenue. Dated February 11, 1913. T. B. No. 348.
- Map altering the grades of RAWSON STREET, from Foster Avenue to Queens Boulevard. Dated April 5, 1913. T. B. No. 362.
- Map closing CLAY AVENUE, Montgomery Avenue, Mussel Avenue, Clifton Avenue and Brook Avenue, from Creek Street to Newtown Creek. Dated May 9, 1913. T. B. No. 371. Referred back to Borough President March 17, 1916.
- Map establishing the lines and grades of OLD ELMHURST AVENUE, from Roosevelt Avenue to Junction Avenue. Dated November 8, 1915. T. B. No. 412. Referred back to Chief Engineer April 1, 1915.
- Map establishing the lines of PRIME STREET, from Hewitt Avenue to Adams Street. Dated November 25, 1913. T. B. No. 416.

- Map altering the grades of ASHLAND STREET, from Diamond Street to Freedom Avenue. Dated Jan. 14, 1914. T. B. No. 433.
- Map of four parcels of land at CLARK STREET to be acquired for a Sewer Easement. Dated March 10, 1914. T. B. No. 440.
- Map altering the U. S. Bulkhead Line, from Beach 116th Street to the Rockaway Beach Division of the L. I. R. R. Dated April 17, 1914. T. B. No. 448.
- Map eliminating FREDERICK STREET, from Garrison Avenue to Creek Street. Dated November 28, 1914. T. B. No. 462. Referred back to Borough President March 26, 1915.
- Map altering the grades of FRONT STREET, from Borden Avenue to Newtown Creek. Dated July 2, 1914. T. B. No. 477.
- Map reducing the width of JUNCTION AVENUE, from Burnside Avenue to Corona Avenue. Dated August 13, 1914. T. B. No. 483. Referred back to President October 15, 1915.
- Map altering the lines of 7TH STREET, from Stryker Avenue to the Long Island Railroad. Dated April 20, 1915. T. B. No. 522.
- Map altering the grades of 101ST STREET, from 99th Avenue to 101st Avenue. Dated May 1, 1915. T. B. No. 525.
- Map establishing the lines and grades of GODFREY AVENUE, from Clinton Avenue to Maspeth Avenue. Dated February 14, 1917. T. B. No. 528.
- Map closing 7TH STREET, from L. I. R. R., for a distance of 25 feet. Dated June 23, 1915. T. B. No. 535.
- Map altering the street lines within the territory bounded by Beach 25th Street, Fernside Place, Camp Place, White Street, Elk Place, Beach 20th Street, Ocean Promenade, Beach 24th Street, and Sea Girt Avenue. Dated October 11, 1915. T. B. No. 551.
- Map establishing the lines of COLLINS AVENUE, across the L. I. R. R. Dated Sept. 30, 1915. T. B. No. 579.
- Map altering the line of 155TH AVENUE, from Centreville Avenue to Peconic Avenue. Dated August 31, 1916. T. B. No. 627.
- Map altering the lines of PECONIC AVENUE, from Rockaway Boulevard to Sutter Avenue. Dated Sept. 2, 1916. T. B. No. 648.
- Map altering the grades of 110TH and 111TH STREETS, from Myrtle Avenue to Jamaica Avenue, and of 86TH AVENUE, from 109th Street to 112th Street. Dated November 22, 1916. T. B. No. 652.
- Map altering the grades of 130TH STREET, from Kew Gardens Road to Hillside Avenue. Dated August 1, 1916.
- Map closing OLD HAWTREE CREEK ROAD, from old South Road to Dumont Avenue. Dated November 24, 1916. T. B. No. 665.
- Map altering the lines and grades of 52ND STREET, from Astoria Avenue to Jackson Avenue. Dated October 7, 1916. T. B. No. 670.
- Map altering the lines and grades of WILLETS POINT BOULEVARD, from Jackson Avenue to Roosevelt Avenue. Dated January 5, 1917. T. B. No. 672.
- Map correcting a block dimension in 7TH STREET, from Polk Avenue to Broadway. Dated September 23, 1916. T. B. No. 680.
- Map altering the grades of VAN ALST AVENUE, from Jackson Avenue to 6th Street. Dated October 5, 1916. T. B. No. 684. Referred back to Borough President October 27.
- Map altering the lines and grades of ROACH PLACE, from South Railroad Avenue to Kingsland Avenue. Dated June 26, 1917. T. B. No. 690.
- Map altering the lines and grades of KINGSLAND AVENUE, from Elbertson Street to Peartree Avenue. Dated April 18, 1917. T. B. No. 712.
- Map altering the lines and grades of JUNCTION AVENUE, from Burnside Avenue to Corona Avenue. Dated July 31, 1917. T. B. No. 698.

- Map altering the lines and grades of CHERRY AVENUE, from 147th Street to 149th Street. Dated February 25, 1917. T. B. No. 706.
- Map altering the lines of MIDDLEBURG AVENUE, from Woodside Avenue to Barnett Avenue. Dated November 12, 1917. T. B. No. 707.
- Map of a Public Park bounded by Corona Avenue, Parcell Street, and Chicago Street. Dated May 18, 1917. T. B. No. 720.
- Map altering the lines and grades of GRAND AVENUE, from Ditmars Avenue to Berrian Avenue. Dated June 25, 1917. T. B. No. 728.
- Map altering the lines and grades of MANOR AVENUE, from Ashland Street northerly. Dated October 1, 1917. T. B. No. 729.
- Map altering the lines and grades of FIRST STREET, from Woodside Avenue to Skillman Avenue. Dated November 15, 1917. T. B. No. 732.
- Map altering the grades of KOERNER, MANHEIM, and WEIMER STREETS, from Van Horn Street to the L. I. R. R. Dated June 29, 1917. T. B. No. 736.
- Map showing a change in the street system heretofore laid out within the territory bounded by 14th Avenue, Grand Avenue, 17th Avenue, and Patterson Avenue. Dated October 26, 1917. T. B. No. 740.
- Map of KISSENA PARK EXTENSION. Dated July 2, 1917. T. B. No. 741.
- Map altering the lines of 103RD AVENUE, from 127th Street to 129th Street. Dated October 3, 1917. T. B. No. 743.
- Map altering the grades of 85TH AVENUE, from 105th Street to 107th Street. Dated September 4, 1917. T. B. No. 748.
- Map altering the grades of DELAWARE AVENUE, from Parsons Boulevard to 147th Street. Dated Sept. 5, 1917. T. B. No. 750.
- Map altering the grades at the intersection of VERNON AVENUE and 7TH STREET. Dated August 31, 1917. T. B. No. 752.
- Map altering the lines of PENELOPE STREET, from Queens Boulevard to Woodhaven Avenue. Dated October 2, 1917. T. B. No. 756.
- Map altering the grades of MYRTLE AVENUE, from Park Lane South to Lefferts Boulevard. Dated October 9, 1917. T. B. No. 757.
- Map altering the grades of ASTORIA AVENUE, from Remsen Street to Woolsey Avenue. Dated October 20, 1917. T. B. No. 758.
- Map altering the grades of WEIRFIELD STREET, from Wyckoff Avenue to the Borough Line. Dated October 13, 1917. T. B. No. 760.
- Map altering the grades of 85TH AVENUE, from 102nd Street to 105th Street. Dated October 8, 1917. T. B. No. 762.
- Map for the extension of and elimination of NORTH JANE STREET, and ROGERS STREET, respectively, from Vernon Avenue to the Bulkhead Line of the East River. Dated December 8, 1917. T. B. No. 767.
- Map altering the grades of METROPOLITAN AVENUE, from Lefferts Boulevard to 123rd Street, and of BREVOORT STREET, from Abingdon Road to 84th Avenue. Dated November 27, 1917. T. B. No. 768.
- Map altering the grades of 101ST AVENUE, from 75th Street to 87th Street. Dated November 26, 1917. T. B. No. 769.
- Map showing a parcel of land situated in 164TH STREET, from Grand Central Parkway to Normal Road, for which sewer easements are to be acquired. T. B. No. 764. This matter to be handled by the Department of Health.

ALTERATION MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE AND APPORTIONMENT FOR APPROVAL

- Map for the territory bounded by South Railroad Avenue, Card Place, Corona Avenue and Hampton Street. Dated January 11, 1917. T. B. No. 475. Resubmitted.

- Map establishing the lines and grades of GODFREY AVENUE, from Clinton Avenue to Maspeth Avenue. Dated February 14, 1917. T. B. No. 528.
- Map altering the grades of CRESCENT STREET, from Harris Avenue to South Jane Street. Dated Jan. 23, 1917. T. B. No. 531.
- Map establishing the lines and grades of JAMAICA AVENUE, from Roseville Avenue to Cliffside Avenue. Dated Oct. 9, 1915. T. B. No. 539. Referred back to Borough President Mar. 2, 1917.
- Map altering the lines and grades of JUNIPER SWAMP section. Dated March 15, 1917. T. B. No. 567.
- Map showing an extension to 86TH AVENUE, from 96th Street to 98th Street, and the elimination of 85TH ROAD, from 96th St to 98th St. Dated Feb. 8, 1917. T. B. No. 619.
- Map altering the lines and grades of AYR AVENUE, between Betts Avenue and Laurel Hill Boulevard. Dated Feb. 24, 1917. T. B. No. 620.
- Map altering the lines and grades of GRIFFITH AVENUE, from Central Avenue to Metropolitan Avenue. Dated March 13, 1917. T. B. No. 651.
- Map altering the grades of HUNTERS POINT AVENUE, from Harold Avenue to Bragaw Street. Dated March 27, 1917. T. B. No. 654.
- Map altering the lines and grades of WILLETS POINT BOULEVARD, from Roosevelt Avenue to Jackson Avenue. Dated Jan. 5, 1917. T. B. No. 672.
- Map altering the lines and grades of ROACH PLACE, from South Railroad Avenue to Kingsland Avenue. Dated June 26, 1917. T. B. No. 690.
- Map altering the lines and grades of LURTING STREET, from Morris Avenue to Sanford Avenue. Dated May 4, 1917. T. B. No. 693.
- Map establishing the lines and grades of 9TH STREET, from Woodside Avenue to the L. I. R. R. Dated Feb. 10, 1917. T. B. No. 694. Completed but not yet forwarded.
- Map altering the lines and grades of JUNCTION AVENUE, from Burnside Avenue to Corona Avenue. Dated July 31, 1917. T. B. No. 698.
- Map altering the grades of WYCKOFF AVENUE, from Halsey Street to Cooper Avenue. Dated Jan. 31, 1917. T. B. No. 699.
- Map altering the grades of 127TH STREET, from Jamaica Avenue to Hillside Avenue. Dated February 2, 1917. T. B. No. 700.
- Map, altering the lines and grades of AGNES PLACE, from Myrtle Avenue to Copeland Avenue. T. B. No. 702. Dated March 16, 1917.
- Map altering the lines of 91ST AVENUE, from 76th Street to 84th Street. Dated March 17, 1917. T. B. No. 703.
- Map extending 25TH STREET, from Berrian Avenue to the Bulkhead Line. Dated Feb. 23, 1917. T. B. No. 704.
- Map establishing the grades of CHERRY AVENUE, from 147th Street to 149th Street. Dated Feb. 27, 1917. T. B. No. 706.
- Map altering the lines of MIDDLEBURG AVENUE, from Woodside Avenue to Barnett Avenue. Dated November 12, 1917. T. B. No. 707.
- Map altering the grades of EDSALL AVENUE, from McComb Place to Central Avenue. Dated March 29, 1917. T. B. No. 709.
- Map altering the lines and grades of KINGSLAND AVENUE, from Elbertson Street to Peartree Avenue. Dated April 18, 1917. T. B. No. 712.
- Map altering the grades of 80TH STREET, from 86th Avenue to Jamaica Avenue. Dated April 20, 1917. T. B. No. 716.
- Map altering the grades of KOERNER STREET, territory bounded by Queens Boulevard, Grand Street, etc. Dated June 7, 1917. T. B. No. 718.
- Map altering the grades of OLMSTEAD PLACE, from Edsall Avenue to Indiana Place. Dated April 19, 1917. T. B. No. 719.

- Map showing a PUBLIC PARK bounded by Corona Avenue, Parcell Street, and Chicago Street. Dated May 18, 1917. T. B. No. 720.
- Map altering the grades of 91ST STREET, from Park Lane to 85th Road, and of 85TH AVENUE, from 91st Avenue to Woodhaven Avenue. Dated May 10, 1917. T. B. No. 721.
- Map altering the grades of EPSILON PLACE, from Cooper Avenue to Myrtle Avenue. Dated May 19, 1917. T. B. No. 722.
- Map altering the grades of 13TH AVENUE, from Jamaica Avenue to a point 355 feet south, and of JAMAICA AVENUE, from 12th Avenue to 13th Avenue. Dated May 11, 1917. T. B. No. 723.
- Map altering the grades of NEW YORK AVENUE, from Branchville Place to Baisley Avenue. Dated May 3, 1917. T. B. No. 724.
- Map altering the lines and grades of BYRD STREET, from Crommelin Avenue to Peck Avenue. Dated May 25, 1917. T. B. No. 726.
- Map altering the lines of BELL AVENUE, from 29th Avenue to Jackson Avenue. Dated May 17, 1917. T. B. No. 727.
- Map altering the lines and grades of GRAND AVENUE, from Ditmars Avenue to Berrian Avenue. Dated June 25, 1917. T. B. No. 728.
- Map altering the lines and grades of MANOR AVENUE, from Ashland Street north. Dated October 1, 1917. T. B. No. 729.
- Map altering the lines of WOODSIDE AVENUE, from Jackson Avenue to Dreyer Avenue. Dated July 12, 1917. T. B. No. 731.
- Map altering the lines and grades of FIRST STREET, from Woodside Avenue to Skillman Avenue. Dated Nov. 15, 1917. T. B. No. 732. Completed, but not yet forwarded.
- Map establishing the grades of LOTUS AVENUE, from Glasser Street to Cooper Avenue. Dated May 29, 1917. T. B. No. 733.
- Map altering the lines of 46TH STREET, from Roosevelt Avenue to old Spruce Street. Dated June 14, 1917. T. B. No. 734.
- Map altering the lines of KOERNER, MANHEIM and WEIMAR STREETS, from Van Horn Street to the L. I. R. R. Dated June 29, 1917. T. B. No. 736.
- Map showing a Sewer Easement in 72ND AVENUE, from 135th Street to 147th Street. Dated June 13, 1917. T. B. No. 738.
- Map placing OLD GRAND AVENUE upon the Map, from 14th Avenue to 17th Avenue. Dated October 26, 1917. T. B. No. 740.
- Map showing the elimination of the Extension to KISSENA PARK. Dated July 2, 1917. T. B. No. 741.
- Map altering the lines of 103RD AVENUE, from 127th Street to 129th Street. Dated October 3, 1917. T. B. No. 743.
- Map showing a change in the curb lines at the intersection of Hoyt, Flushing and Second Avenues. Dated August 10, 1917. T. B. No. 746.
- Map altering the grades of DELAWARE AVENUE, from Parsons Boulevard to 147th Street. Dated Sept. 5, 1917. T. B. No. 750.
- Map altering the grades of 7TH STREET, from East Avenue to West Avenue. Dated August 31, 1917. T. B. No. 752.
- Map altering the lines of PENELOPE STREET, from Queens Boulevard to Woodhaven Avenue. Dated October 2, 1917. T. B. No. 756. Completed, but not yet forwarded to the Board of Estimate and Apportionment.
- Map altering the grades of MYRTLE AVENUE, from Park Lane South to Lefferts Boulevard. Dated October 9, 1917. T. B. No. 757.
- Map altering the grades of ASTORIA AVENUE, from Remsen Street to Woolsey Street. Dated October 20, 1917. T. B. No. 758.
- Map altering the grades of WEIRFIELD STREET, from Wyckoff Avenue to the Borough Line. Dated October 13, 1917. T. B. No. 760.

- Map altering the grades of 85th AVENUE, from 102d Street to 105th Street. Dated October 8, 1917. T. B. No. 762.
- Map showing a Sewer Easement in 164TH STREET, from Grand Central Parkway to Normal Road. Dated October 19, 1917. T. B. No. 764. This matter to be handled by the Department of Health.
- Map altering the grades of CAMERON TERRACE, from Grout Ave. to Woodside Ave. Dated October 25, 1917. T. B. No. 765.
- Map showing the extension and elimination of NORTH JANE STREET, and ROGERS STREET, respectively, from Vernon Avenue to the Bulkhead Line. Dated December 8, 1917. T. B. No. 767.
- Map altering the grades of METROPOLITAN AVENUE, from Lefferts Avenue Boulevard to 123d Street, and of BREVOORT STREET, from Abingdon Road to 84th Avenue. Dated November 27, 1917. T. B. No. 768.
- Map altering the grades of 101ST AVENUE, from 75th Street to 87th Street. Dated November 26, 1917. T. B. No. 769.

ALTERATION MAPS CERTIFIED BY THE BOARD OF ESTIMATE AND APPORTIONMENT
AND FILED AT THIS OFFICE.

- Map for the territory bounded by S. Railroad Ave., Card Place, Corona Ave. and Hampton St. Filed May 12, 1917. T. B. No. 475.
- Map showing a change in the lines of VERMONT AVENUE, from Eastern Parkway to Tappen Terrace. Filed March 2, 1917. T. B. No. 479.
- Map altering the lines and grades of METZ AVENUE, from Fisk Avenue to 19th Street. Filed Jan. 13, 1917. T. B. No. 530.
- Map altering the grades of CRESCENT STREET, from Harris Ave. to S. Jane Street. Filed August 7, 1917. T. B. No. 531.
- Map altering the lines of WOODHAVEN AVENUE, from Atlantic Avenue to Rockaway Boulevard. Filed August 7, 1917. T. B. No. 536.
- Map showing a change in the street system heretofore laid out within the territory bounded by Nagy St., Nassau Ave., Thew Ave., Whitlock Ave., Corinth Ave. and Eliot Ave. Filed August 7, 1917. T. B. No. 585.
- Map altering the lines and grades of SHERWOOD STREET, from Rowan Ave. to Lenox Ave. Filed May 12, 1917. T. B. No. 591.
- Map altering the lines of LIBERTY AVENUE, from Church St. to Lefferts Avenue. Filed March 2, 1917. T. B. No. 597.
- Map altering the grades of HARVARD AVENUE, from Hillside Ave. to Canador St., and of YALE AVENUE, from Hillside Ave. to Jamaica Ave. Filed March 2, 1917. T. B. No. 603.
- Map altering the lines and grades of 95TH AVENUE, from 109th St. to 116th St. Filed October 15, 1917. T. B. No. 606.
- Map showing an extension of 86TH AVENUE, from 96th St. to 98th St., and the elimination of 85TH ROAD, from 96th St. to 98th St. Filed Oct. 1, 1917. T. B. No. 619.
- Map altering the grades of BEACH 123D STREET, from Beach Channel Drive to Ocean Promenade. Filed March 2, 1917. T. B. No. 622.
- Map altering the grades of CHICKERING PLACE, from Alice Street to Jackson Avenue, and of STATE STREET, from Boerum Avenue to Ziegler Avenue. Filed April 2, 1917. T. B. No. 623.
- Map altering the lines and grades of CLINTON AVENUE, from Hobson Avenue to Montgomery Avenue. Filed June 18, 1917. T. B. No. 628.
- Map altering the lines and grades of 39TH STREET, at its intersection with Junction Avenue. Filed March 2, 1917. T. B. No. 630.
- Map altering the grades of WILTON AVENUE, from Glasser Street to Cooper Avenue. Filed April 2, 1917. T. B. No. 631.

- Map altering the grades of CASPIAN STREET, from King Place to Eliot Avenue, and of COLLINS AVENUE, from Arctic Street to Metropolitan Avenue. Filed March 2, 1917. T. B. No. 633.
- Map altering the lines and grades of WOODSIDE AVENUE, from Barnett Avenue to Broadway, and of SINCLAIR AVENUE, from 19th Street to Broadway. Filed April 2, 1917. T. B. No. 634.
- Map altering the lines of the PUBLIC PARKS adjacent to Grand Central Parkway. Filed January 13, 1917. T. B. No. 635.
- Map altering the lines and grades of GREENWOOD AVENUE, from Jerome Avenue to the Conduit. Filed May 12, 1917. T. B. No. 637.
- Map altering the grades of NELSON AVENUE, from Buckley Street to Bragaw Street. Filed May 12, 1917. T. B. No. 638.
- Map altering the grades of FOREST AVENUE, from Grove Street to Gates Avenue, and of LINDEN STREET, from Grandview Avenue to Prospect Avenue. Filed December 28, 1917. T. B. No. 639.
- Map altering the lines and grades of PRALL PLACE, from 43d Street to Way Avenue. Filed August 7, 1917. T. B. No. 641.
- Map altering the grades of 34TH AVENUE, from 149th Place to 150th Place, and of 150TH STREET, from 33d Avenue to 35th Avenue. Filed June 18, 1917. T. B. No. 642.
- Map altering the grades of 9TH STREET, from East Avenue to Jackson Avenue. Filed June 18, 1917. T. B. No. 653.
- Map altering the grades of HUNTERS POINT AVENUE, from Harold Avenue to Bragaw Street. Filed October 1, 1917. T. B. No. 654.
- Map altering the grades of AUDLEY STREET, from 84th Avenue to Abingdon Road. Filed May 12, 1917. T. B. No. 658.
- Map altering the grades of GUNTHER STREET, from Alburtis Avenue, to 51st Street, and of ALBURTIS AVENUE, from Lake St. to Havemeyer St. Filed Aug. 7, 1917. T. B. No. 661.
- Map altering the grades of 77TH STREET, from 88th Road to 89th Avenue. Filed August 7, 1917. T. B. No. 662.
- Map altering the grades of 46TH STREET, from Polk Avenue to Roosevelt Avenue, and of SACKETT STREET, from Alburtis Avenue to 45th Street. Filed May 12, 1917. T. B. No. 663.
- Map altering the lines and grades of BARCLAY AVENUE, from 150th Street to 156th Street. Filed May 12, 1917. T. B. No. 668.
- Map altering the lines and grades of 7TH AVENUE, from Riker Avenue to the Bulkhead Line of the East River. Filed August 7, 1917. T. B. No. 669.
- Map altering the grades of REVIEW AVENUE, from Howard Street to Laurel Hill Boulevard. Filed March 2, 1917. T. B. No. 673.
- Map altering the lines and grades of 12TH STREET, from Jackson Avenue to Astoria Avenue. Filed March 2, 1917. T. B. No. 674.
- Map altering the lines of COOPER AVENUE, from Ridgewood Place to Proctor Street. Filed March 2, 1917. T. B. No. 676.
- Map altering the lines and grades of PITKIN AVENUE, from 77th Street to Sutter Avenue. Filed August 7, 1917. T. B. No. 678.
- Map altering the grades of 88TH STREET, from Park Lane South to 85th Road. Filed March 2, 1917. T. B. No. 679.
- Map altering the grades of HUGHES STREET, from Forest Avenue to Anthon Avenue. Filed October 15, 1917. T. B. No. 681.
- Map altering the grades of 6TH STREET and 7TH STREET, from Stryker Avenue to Polk Avenue. Filed December 28, 1917. T. B. No. 685.
- Map altering the lines of COOPER AVENUE, from Fosdick Avenue to Lafayette Street, and of CENTRAL AVENUE, from Edsall Avenue to Woodhaven Avenue. Filed March 2, 1917. T. B. No. 689.

Map altering the grades of KINGSLAND AVENUE, from Junction Avenue to Tiemann Avenue. Filed April 2, 1917. T. B. No. 692.

Map altering the grades of WYCKOFF AVENUE, from Halsey Street to Cooper Avenue. Filed October 1, 1917. T. B. No. 699.

Map altering the lines of 91ST AVENUE, from 76th St. to 84th St. Filed Oct. 1, 1917. T. B. No. 703.

Map extending 25TH STREET, from Berrian Avenue to the Bulkhead Line. Filed August 7, 1917. T. B. No. 704.

Map altering the grades of 80TH STREET, from 86th Avenue to Jamaica Avenue. Filed December 28, 1917. T. B. No. 716.

Map altering the grades of KOERNER STREET; territory bounded by Queens Boulevard, Grand Street, etc. Filed October 1, 1917. T. B. No. 718.

Map altering the grades of OLMSTEAD PLACE, from Edsall Avenue to Indiana Place. Filed October 15, 1917. T. B. No. 719.

Map altering the grades of EPSILON PLACE, from Cooper Avenue to Myrtle Avenue. Filed December 28, 1917. T. B. No. 727.

Map altering the lines of BELL AVENUE, from 29th Avenue to Jackson Avenue. Filed December 28, 1917. T. B. No. 727.

Map altering the grades of LOTUS AVENUE, from Glasser Street to Cooper Avenue. Filed December 28, 1917. T. B. No. 733.

Map altering the lines of 46TH STREET, from Roosevelt Avenue to old Spruce Street. Filed December 28, 1917. T. B. No. 734.

Map showing a Sewer Easement in 72ND AVENUE, from 135th Street to 147th Street. Filed August 7, 1917. T. B. No. 738.

ALTERATION MAPS WITH THE BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING.

Map altering the lines of WOODSIDE AVENUE, from Jackson Avenue to Dreyer Avenue. Dated July 12, 1917. T. B. No. 731.

ALTERATION MAPS NOT COMPLETED.

Being computed.

WOODILL PLACE: Falkner St. to Grand St. T. B. No. 541.

WOODHAVEN AVENUE: Jamaica Ave. to Forest Park. T. B. No. 546.

MALVINA PLACE: Clinton Ave. to Maspeth Ave. T. B. No. 604.

TOLEDO STREET: S. R. R. Ave. to Forley St. T. B. No. 655.

ARCTIC STREET and vicinity. T. B. No. 710.

82ND AVENUE: 134th St. to 135th St. T. B. No. 744.

BUSKIRK PLACE: Seabury St. to Queens Boulevard. T. B. No. 751.

19TH AVENUE: Astoria Ave. south about 300 ft. (Being surveyed). T. B. No. 754.

KOSSUTH PLACE: Fresh Pond Road to Borough Line. T. B. No. 775.

Being draughted.

JAGGAR AVENUE: Underhill Ave. to Sanford Ave. T. B. No. 527.

ARCHER PLACE: Van Wyck Ave. to Dora Street. T. B. No. 529.

OLD BOWERY BAY ROAD: 2nd Ave. to Hazen Street. T. B. No. 543.

COOPER AVENUE: Dill Place to Slocum Street. T. B. No. 602.

CHANGE IN FINAL SECTIONS 18 and 19. T. B. No. 614.

JAGGAR AVENUE: Peck Avenue to Hempstead Turnpike. T. B. No. 656.

UNNAMED STREET: Steinway Avenue to 21st Avenue. T. B. No. 691.

9TH STREET: Woodside Avenue to L. I. R. R. (Completed, but not yet forwarded.) T. B. No. 694.

LOUONA AVENUE: Roosevelt Ave. to Corona Ave. T. B. No. 697.

ELDERTS LANE: 90th St. to Rockaway Boulevard. T. B. No. 701.

BURNSIDE AVENUE: Paterson Ave. and intersecting streets. Old Bowery Bay Road to 13th Street. T. B. No. 711.

MARTIN, OCEAN VIEW and BEDFORD AVENUES: Myrtle Ave. to Forest Park T. B. No. 717.

12TH STREET: Astoria Ave. to Bowery Bay. T. B. No. 730.

FIRST STREET: Woodside Ave. to Skillman Ave. (Completed, but not yet forwarded). T. B. No. 732.

BERRIAN AVENUE, etc.: Riverside Ave. to Harper Ave. T. B. No. 739.

FLUSHING RIVER: Lurting St. South. T. B. No. 747.

7TH AVENUE: Riker Avenue to Winthrop Avenue. T. B. No. 749.

GRAND STREET: Kneeland Avenue to Queen Boulevard. T. B. No. 753.

46TH AVENUE: 160th St. to 165th St. T. B. No. 759.

MOUNT JUDAH CEMETERY: Elimination of streets. T. B. No. 761.

Territory bounded by Grand St., Mazeau St., etc. Caldwell Avenue to Firth Avenue. T. B. No. 766.

MILLER STREET: Myrtle Ave. to Taylor St. T. B. No. 770.

RIDGEWOOD and FULTON AVENUES: Cedar Ave. to Maure Ave. T. B. No. 773.

BOROUGH LINE, near Conduit: Conduit to Dumont Ave. T. B. No. 774.

Being surveyed.

ARCTIC STREET: and vicinity. T. B. No. 710.

GROUT AVENUE: Schroeder Place to Rowan Avenue. T. B. No. 745.

CASPIAN STREET: Collins Avenue to Prospect Avenue. (100 per cent complete). T. B. No. 763.

DIVISION OF STREET OPENINGS.

STREET OPENING PROCEEDINGS INSTITUTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT.

	Instituted.	Feet
HEISER STREET: Barnett Ave. to Greenpoint Ave.....	Feb. 6	2540
MAURICE AVENUE: Hanover Ave. to Junction Ave.....	Jan. 5	417
HORTON STREET, Hanover Ave. to Junction Ave.....	Jan. 5	412
IVY STREET: Hanover Ave. to Junction Ave.....	Jan. 5	416
JENNINGS STREET: Hanover Ave. to Junction Ave.....	Jan. 5	420
LEWIS AVENUE: Hanover Ave. to Junction Ave.....	Jan. 5	424
STONE STREET: Greenpoint Ave. to Queens Blvd.....	Mar. 2	260
DICKSON STREET: Skillman Ave to Greenpoint Ave.....	Mar. 2	1360
Skillman Ave. to Barnett Ave.....	Mar. 2	1360
LAUREL HILL AVENUE: Skillman Ave. to Anable Ave.....	Mar. 2	2600
NORTH CONDUIT AVENUE: Sutter Ave. to 79th St.....	Mar. 16	400
SUTTER AVENUE, Borough Line to Pitkin Ave.....	Mar. 16	1440
BELL AVENUE: Crocheron Ave. to Broadway.....	Mar. 30	2100
SCHURZ AVENUE: Astoria Ave. to Berrian Ave.....	May 25	5600
25TH STREET: Sigel Ave. to East River.....	June 22	3600
SIGEL AVENUE: Astoria Ave. to 12th Street.....	June 22	2300
RIKER AVENUE: 12th St. to 25th Street.....	June 22	800
95TH AVENUE: 109th St. to 111th Street.....	Sept. 21	1000
113th St. to 115th Street.....	Sept. 21	
13TH STREET: 12th St. to Polk Ave.....	Nov. 9	4600
POLK AVENUE: 13th St. to Fisk Ave.....	Nov. 9	
STILES PLACE: Jackson Ave. to Station Road.....	Dec. 21	900
STATION ROAD: Stiles Place to Cemetery Lane.....	Dec. 21	
MURRAY STREET: Northern Blvd. to 34th Ave.....	Dec. 21	1200
MURRAY LANE: Murray St. to 33d Ave.....	Dec. 21	
BARCLAY AVENUE: Murray St. to 154th St.....	Dec. 14	700
154TH STREET: Barclay Ave. to Sanford Ave.....	Dec. 14	
*BELL AVENUE: Crocheron Ave. to Broadway.....	Nov. 9	2100

*SOUTH STREET: Waltham St. to New York Ave.....	Nov. 16	2300
*WOODSIDE AVENUE: Jackson Ave. to Broadway.....	Dec. 14	9500
*91ST AVENUE: Borough Line to 84th Street.....	Sept. 21	2300
*84TH STREET: 91st Ave. to 90th Road.....	Sept. 21	240
*NAGY STREET: Jansen Ave. to Metropolitan Ave.....	Oct. 19	6635
Grand St. to Nassau Ave.....	Oct. 19	
*ARCHER STREET: Van Wyck Ave. to Branford St.....	June 8	3200
*17TH STREET: Queens Boulevard to Jackson Ave.....	Feb. 16	5600
*WOODSIDE AVENUE: Jackson Ave. to Broadway.....	Feb. 16	9500
*PITKIN AVENUE: Borough Line to Sutter Avenue.....	May 11	2500
*76TH STREET: Atlantic Ave. to N. Conduit Ave.....	May 11	2700

81424

*Amended proceeding.

STREET OPENING PROCEEDINGS PASSED BY THE LOCAL BOARD AND PENDING THE
APPROVAL OF THE BOARD OF ESTIMATE AND APPORTIONMENT.

Passed Local Board.

ALBURTIS AVENUE: Fillmore Ave. to Alstyne Ave.....	Feb. 25	1909
AMAGANSETT STREET: 15th St. to a property line 50 feet westerly	Sept. 29	1913
ARCTIC STREET: Collins Ave. to Fresh Pond Road.....	Nov. 9	1916
AMORY AVENUE: Stanhope St. to Bleeker St.....	Jan. 14	1915
(Referred back to Borough President Nov. 12, 1915)		
ATLANTIC AVENUE: Channel Ave. to Grandview Ave.....	May 26,	1911
(Referred back to President, Nov. 2, 1911)		
*BERLIN AVENUE: Borden Ave. to Newtown Creek.....	Apr. 2	1914
BEACH CHANNEL DRIVE: Beach 85th St. to Beach 116th St..	Nov. 21	1913
BRAZIL STREET: Freedom Ave. to Oxford Ave.....	Oct. 13	1909
BRENTON AVENUE: Plainfield St. to Hillside Ave.....	June 7	1912
*BROOKFIELD BLVD: 147th Ave. to Rockaway Blvd.....	Mar. 30	1916
BUCHMAN STREET: Cornelia St. to Catalpa Ave.....	Nov. 21	1913
BURNSIDE AVENUE: Broadway to 1st Street.....	Oct. 19	1916
CAMERON TERRACE: Grout Ave. to a property line 150 feet northerly	May 4	1916
CARD PLACE: Corona Ave. to Kingsland Ave.....	Dec. 1	1910
(Referred back to Borough President April 18, 1912)		
CARTER PLACE: Grand St. to Carter Ave.....	Nov. 15	1912
*CENTRAL AVENUE: Broadway to Cypress Ave.....	Jan. 16	1908
CHAFFEE STREET: Shaler St. to Cornelia St.....	June 30	1910
(Referred back to Borough President Dec. 14, 1913)		
*CLINTON AVENUE: Montgomery Ave. to Hobson Ave.....	Mar. 2	1916
COE PLACE: Van Nest St. to Voorhees Place.....	Dec. 1,	1910
(Referred back to President April 18, 1912)		
COLUMBINE AVENUE: Clifton Ave. to Berlin Ave.....	June 25,	1914
COOPER AVENUE: Cypress Ave. to Cypress Hills Road.....	Dec. 12	1913
CORINTH AVENUE: Grand St. to Caldwell Ave.....	Nov. 15	1912
(Referred back to Boro. Pres't Jan. 30, 1914)		
*COVERT AVENUE: Greenpoint Ave. to Madden St. and Locust St. to Addison Place.....	Jan. 7	1909
CREEK STREET: Flushing Ave. to Penny Bridge.....	Sept. 20	1915
*CUMBERLAND STREET: Across the L. I. R. R.....	Apr. 5	1912
DEBEVOISE STREET: Walcott Ave. to Ditmars Ave.....	Oct. 18	1912
DEY STREET: Crescent St. to Van Alst Ave.....	Mar. 6	1914
DIVISION AVENUE: Lewis Ave. to Caldwell Ave.....	Apr. 13,	1916

*EDSELL AVENUE: Otto St. to Central Avenue.....	Mar. 24 1911
(Referred back to Boro. Pres't Jan. 25, 1912)	
EGAN AVENUE: Forbell Ave. to Elderts Lane.....	Dec. 13 1912
ELDERTS LANE: Egan Ave. to a point 200 feet north.....	Dec. 13 1912
FARMERS AVENUE: Jamaica Ave. to 99th Ave.....	Oct. 26 1916
FERGUSON STREET: Alburtus Ave. to Prime St.....	May 19 1916
(Referred back to President Jan. 19, 1913)	
FITTING STREET: Barnett Ave. to Nelson Ave.....	Dec. 19 1915
FLUSHING RIVER: De Lavall Street to Livingston St.....	Jan. 23 1914
(Referred to Com. on Assess. Oct. 15, 1915)	
FORBELL AVENUE: Flynn Ave. to Egan Ave.....	Dec. 13 1912
FOREST STREET: Junction Ave. to 41st St.....	June 25 1914
FRANCONIA AVENUE: 17th St. to Cemetery Lane.....	Dec. 24, 1907
(Referred back to Pres't March 27, 1914)	
FREEHOLD STREET: Ulster Ave. to Baisley Ave.....	June 29 1916
FULTON STREET: Bedford Ave. to Napier Ave.....	Dec. 19 1913
GRAND AVENUE: Main Street to Stevens Street.....	May 10 1912
(Refer to Chief Engineer Oct. 23, 1913)	
*GOULD AVENUE: Madden Ave. to Locust Ave.....	Mar. 16 1914
GRAND CENTRAL PARKWAY: Queens Boulevard to Nassau	
Co. Line	Apr. 2 1914
GRAND STREET: Kossuth Place to Madison Street.....	June 12 1906
(Refer back to Pres't Feb. 28, 1908)	
GROUT AVENUE: Schroeder Place to Hyatt Ave.....	Sept. 20 1916
HALLE AVENUE: Laurel Hill Bld. to old Berlin Ave.....	July 29 1913
HALLECK AVENUE: Kossuth Place to Shaler Street.....	Mar. 24 1911
HANOVER AVENUE: L. I. R. R. to Sewage Disposal Plant	Dec. 1 1910
(Refer back to President Apr. 18, 1912)	
HAROLD AVENUE: Queens Boulevard to Borden Avenue.....	May 27 1915
HARSELL STREET: Van Alst Ave. to East River.....	Dec. 19 1907
HAYES AVENUE: De Peyster St. to Jackson Ave.....	July 20 1916
*HERALD AVENUE: Liberty Ave. to Ashland St.....	Feb. 28 1907
HERBERT STREET: Rust St. to Clermont Ave.....	Apr. 30 1914
HICKS AVENUE: Thomson Ave. to Woodside Ave.....	June 10 1909
HOLLIS AVENUE: 99th Ave. to Rosedale Blvd.....	Oct. 26 1916
HOME LAWN AVENUE: Hillside Ave. to Highland Ave.....	Jan. 25 1917
HOWELL AVENUE: Woodside Ave. to 5th St.....	Dec. 7 1916
HUNT STREET: Van Dine St. to 330 feet east and 42d St. to	
Louona Ave.	Jan. 4 1917
JACOBSON STREET: Britton Ave. to Baxter Ave.....	Dec. 12 1913
JAMAICA AVENUE: Between lines of ROCKAWAY BEACH	
Division of L. I. R. R.....	Mar. 31 1910
JERMYN PLACE: Guinsburg Place to South Street.....	June 19 1914
JOHNSON AVENUE: Rockaway Rd. to Division Street.....	Nov. 29 1912
JONES AVENUE: Clifton Ave. to Debevoise Ave.....	June 25 1914
JOY AVENUE: Laurel Hill Blvd. to Debevoise Ave.....	Dec. 12 1913
JUNCTION AVENUE: Burnside Ave. to Hoffman Blvd.....	Feb. 25 1909
KINGSLAND AVENUE: Elbertson St. to Havemeyer St.....	Apr. 29 1909
*LAUREL HILL AVENUE: Anable Ave. to Borden Ave.....	Mar. 6 1914
*LEBANON (12th) STREET: Mulford Ave. to Willets Point	
Road	Jan. 23 1914
(Awaiting adoption of Final Section)	
LIBERTY AVENUE: Van Wyck Ave. to Carlisle Street.....	Oct. 26 1916
LINCOLN AVENUE: Queens Boulevard to Skillman Ave.....	June 20 1907
LOCUST STREET: Barnett Avenue to Skillman Ave.....	Dec. 9 1915

LOUONA AVENUE: Corona Avenue to Way Avenue.....	Mar. 22	1917
LOUONA AVENUE: Adjoining public place at Roosevelt Ave. (Included in Roosevelt Ave proceeding)		
LURTING STREET: 51st St. to Wateredge Ave.....	July 20	1916
MCPHERSON STREET: Shaler St. to Cornelia St.....	June 30	1910
(Refer back to President Dec. 24, 1913)		
*MAIN STREET: Grand Ave. to Van Alst Ave.....	May 10	1912
(Referred to City Plan Feb. 20, 1914)		
MERCHANT STREET: Hoyt Ave. to Ditmars Ave.....	Oct. 1	1914
MIDDAGH STREET: Fairbanks Ave. to the westerly line of old Grove Street	Sept. 23	1915
MIDDLEBURG AVENUE: Barnett Ave. to Woodside Ave....	May 28	1914
MILLS STREET: Orchard St. to bulkhead line of East River....	Feb. 16	1912
MILLS STREET: East River to Fulton Ave.....	Apr. 12	1911
MILLS STREET: Orchard St. to Fulton Ave.....	Jan. 20	1911
MITCHELL AVENUE: Murray St. to 31st St.....	Apr. 5	1906
and Oct. 25 1906		
MONTGOMERY AVENUE: Borden Ave. to Clinton Ave.....	Dec. 12	1913
MORTON AVENUE: Central Ave. to Metropolitan Ave.....	Jan. 14	1915
*NAPIER AVENUE: Across the L. I. R. R.....	June 16	1911
*NORWAY (14th) STREET: Schleicher Court to Ave. C.....	Apr. 4	1913
(Waiting adoption of Final Section 49)		
*NOTT AVENUE: Vernon Ave. to East River.....	July 12	1912
NOTTAWA AVENUE: Smith St. to New York Ave.....	May 3	1912
OCEAN PARKWAY and PROPOSED PARK: Beach 126th St. to Beach 141st St.	Dec. 9	1915
ONDERDONK AVENUE: Metropolitan Ave. to Catalpa Ave...	Apr. 29	1909
(Refer to Chief Engineer Feb. 11, 1910)		
*PACKARD STREET: Skillman Ave. to Borden Ave.....	Sept. 24	1908
PARK LANE: Myrtle Ave. to Union Turnpike.....	Mar. 30	1916
*PARK LANE: Bell Ave. to Little Neck Bay. Both sides of Crocheron Avenue	Mar. 3	1911
PEARTREE AVENUE: Jackson Ave. to Pell Street.....	Aug. 16	1917
PELL STREET: Jackson Ave. to Polk Ave.....	June 30	1910
(Refer to Boro. Pres't Nov. 2, 1911)		
PERCY STREET: Sanford Avenue to Bayreuth Street.....	Dec. 27	1912
(Referred to Boro. Pres't June 12, 1913)		
PHRANER AVENUE: South St. to Yukon Avenue.....	Sept. 28	1916
PLATTWOOD AVENUE: Sutter Ave. to Rockaway Boulevard..	Feb. 27	1917
POLK AVENUE: Woodside Ave. to 8th Street.....	Sept. 20	1905
(Referred back to Boro. Pres't Nov. 29, 1911)		
POLK AVENUE: Junction Avenue to Pell Street.....	June 30	1910
(Referred back to Borough President Nov. 2, 1911)		
*PUBLIC PARK: Myrtle Avenue addition to Forest Park....	Mar. 21	1907
*RAILROAD AVENUE: Maurice Ave. to Grand St.....	Sept. 20	1905
RALPH STREET: Grandview Ave. to Fresh Pond Road.....	Sept. 19	1906
(Referred back to Borough President)		
RAMSEY STREET: Queens Boulevard to Grand Street.....	Nov. 15	1912
*REVIEW AVENUE: Howard St. to Pearsall Avenue.....		
*ROACH PLACE: Corona Ave. to Kingsland Avenue.....	Nov. 19	1916
ROCKAWAY BEACH BOULEVARD: Beach 125th St. to Adiron- dack Blvd.		
SAMUELSON STREET: Corinth Ave. to Division Ave.....	Nov. 15	1912
(Referred back to Local Board Jan. 30, 1914)		

SAULL STREET: Across the right-of-way of the L. I. R.	May 25, 1916
SAULL STREET: California Ave. to Hammell Ave.	Apr. 25, 1913
SEDGWICK STREET: Kossuth Place to Cornelia St.	June 30, 1910
(Referred back to Borough President, Dec. 24, 1913)	
SIBOUTSEN STREET: Junction Avenue to 43rd Street.	Apr. 12, 1911
(Referred back to Borough President Mar. 13, 1914)	
SILVER STREET: Woodward Ave. to Anthon Ave.	June 30, 1910
SLOCUM STREET: Edsall Ave. to Madison St.	July 18, 1906
(Referred back to Borough President Feb. 28, 1908)	
SOUTH RAILROAD AVENUE: Broadway to Roach Place.	Jan. 23, 1914
*SPRUCE STREET: Atlantic Ave. north to Atlantic Ave. south.	Feb. 26, 1915
(Waiting adoption of special Final Map)	
STANHOPE STREET: 351.9' N. E. of Grandview Ave. to Metro-	
politan Ave.	Jan. 14, 1915
STATE STREET: 17th St. to 31st St.	June 25, 1908
*STEVENS STREET, Fulton Ave. to Main St.	May 10, 1912
STILES PLACE: Queens Ave. to Station Road.	Sept. 23, 1913
SUTTER AVENUE: Hatch Ave. to Plattwood Ave.	Feb. 27, 1917
SUWANEE AVENUE: Rockaway Blvd. to Sutphin Rd.	Feb. 27, 1917
TENNESSEE STREET: Rockaway Blvd. to N. Conduit Ave.	May 28, 1914
TIEMANN AVENUE: Polk Avenue to Corona Ave.	Feb. 25, 1909
(Referred back to Borough President, Feb. 6, 1913)	
TOLEDO STREET: Corona Ave. to Forley Street.	Oct. 16, 1916
TORY STREET: Barkins St. to Flushing River.	June 30, 1910
TOWER PLACE: Freedom Ave. to Oxford Ave.	June 30, 1914
TOWNSEND AVENUE: Cleveland Ave. to Debevoise Ave.	June 25, 1914
ULSTER AVENUE: Sutphin Rd to Smith St.	Feb. 26, 1916
UPLAND PARK ADDITION: Petition for acquiring of 2.316	
Acres	Apr. 25, 1913
(Referred back to Borough President, Dec. 18, 1913)	
VAN DINE STREET: Kingsland Ave. to Roosevelt Ave.	Sept. 15, 1911
(Referred back to Borough President, Apr. 18, 1912)	
*VANDEVEER AVENUE: Jamaica Ave. to Sutter Ave.	May 10, 1912
VAN HORN STREET: Grand St. to Woodhaven Ave.	Jan. 23, 1914
VAN NEST STREET: Roosevelt Ave. to L. I. R.	Dec. 1, 1910
(Referred back to Borough President, April 18, 1912)	
VOORHEES PLACE: Hunt St. to Roosevelt Ave.	Aug. 16, 1917
WAINSCOTT AVENUE: Beechhurst Ave. to Bell Ave.	Dec. 19, 1913
WALDRON STREET: Alburtis Ave. to Rodman St.	Apr. 12, 1911
(Referred back to Borough President, Dec. 18, 1913)	
WATERS AVENUE: Laurel Hill Blvd. to Debevoise Ave.	Dec. 12, 1913
WEISSE AVENUE: Myrtle Ave. to Varian St.	Mar. 1, 1917
WEISSE AVENUE: Edsall Ave. to Satterlee Ave.	May 2, 1913
WESTSIDE STREET: Corona Ave. to Rodman St.	June 30, 1910
(Referred back to Borough President, Dec. 18, 1913)	
WILSON AVENUE: Old Bowery Bay Rd. to 20th Ave.	Nov. 15, 1912
WILTON AVENUE: Glasser St. to Anna Place.	Sept. 22, 1910
WINDOM STREET: Racket St. to Shaw Ave.	Dec. 1, 1909
WOODHAVEN AVENUE: Albert St. to Waterfront Develop-	
ment	Dec. 13, 1912
(Waiting approval of Jamaica Bay Blvd.)	
WOODHAVEN AVENUE: Queens Blvd. to Jamaica Ave.	Mar. 31, 1910
(Referred back to Borough President, Oct. 19, 1911)	
WOODHAVEN AVENUE: Middleburg Ave. to Anderson Ave.	Nov. 3, 1910

YOUNG STREET: L. I. R. R. to Hunters Point Ave....	Apr. 5, 1906
(Referred to Committee, Dec. 6, 1907)	
1ST STREET: Jackson Ave. to 21st Ave.....	Oct. 19, 1916
1ST STREET: Greenpoint to Woodside and Howell to Jackson Aves.	Jan. 10, 1913
(Referred back to Local Board, Dec. 19, 1912)	
7TH AVENUE: Woolsey Ave. to Riker Ave.....	Apr. 15, 1916
*8TH STREET: West of West Avenue.....	Sept. 20, 1905
13TH STREET: 12th St. to Polk Ave.....	Mar. 22, 1917
14th STREET: Arnot Ave. to Mitchell Ave.....	May 23, 1913
17TH STREET: Mitchell Ave. to Ziegler Estate.....	Oct. 25, 1906
(Filed by Board of E. and A., Aug. 26, 1915)	
19TH AVENUE: N. Side of Broadway to East River.....	Jan. 26, 1912
20TH AVENUE: Jackson Ave. to Quinn St.....	Nov. 15, 1912
21ST AVENUE: Newtown Rd to 20th Ave.....	Oct. 19, 1916
21ST STREET: Laurel Hill Blvd. to Roosevelt Ave.....	Jan. 13, 1916
BEACH 25TH STREET: Cornaga Ave. to Far Rockaway Blvd.	Jan. 13, 1916
(Returned to Borough President, February 23, 1916)	
28TH STREET: Jackson Ave. to Astoria Ave.....	July 16, 1914
37TH STREET: Hunt St. to Berrian Ave.....	Mar. 24, 1911
(Refer back to Borough President, June 22, 1917)	
41ST STREET: Berrian Ave. to Lake St.....	Mar. 24, 1911
42ND STREET: N. Railroad Ave. to Flushing Bay.....	Jan. 20, 1911
42ND STREET: 265' N. of Burnside Ave. to Ditmars Ave.....	Sept. 23, 1915
43RD STREET: Polk Ave. to Roosevelt Ave.....	Apr. 12, 1917
43RD STREET: Polk Ave. to Sackett St.....	Apr. 12, 1917
43RD STREET: Jackson Ave. to Astoria Ave.....	Dec. 1, 1909
43RD STREET: Ditmars Ave. to 265' N. of Burnside Ave.....	Sept. 23, 1915
44TH STREET: Polk Ave. to Roosevelt Ave.....	Apr. 12, 1917
44TH STREET: Polk Ave. to Sackett St.....	Apr. 12, 1917
44TH STREET: Astoria Ave. to Roosevelt Ave.....	Apr. 18, 1910
44TH STREET: Astoria Ave. to Sackett St.....	Apr. 28, 1910
45TH STREET: Polk Ave. to Roosevelt Ave.....	Apr. 12, 1917
45TH STREET: Polk Ave. to Sackett St.....	Apr. 12, 1917
85TH DRIVE: 80th St. to 83rd St.....	July 26, 1917
85TH STREET: Rockaway Plank Road to 101st Ave.....	Sept. 2, 1915
*96TH AVENUE: 96th St. to 98th St.....	Jan. 27, 1916
98TH AVENUE: Farmers Ave. to 191st St.....	May 25, 1916
99TH AVENUE: Farmers Ave. to Hollis Ave.....	Oct. 26, 1916
123RD STREET: Metropolitan Ave. to Ashland St.....	May 28, 1915
*130TH STREET: Metropolitan Ave. to Wisner Pl.....	May 28, 1915
(Referred to City Plan, Nov. 24, 1916)	
*194TH STREET: Jamaica Ave. to 109th Ave.....	Feb. 26, 1915
(Waiting adoption of Map)	
198TH STREET: Jamaica Ave. to Hollis Ave.....	Feb. 26, 1915
202ND STREET: Jamaica Ave. to Hollis Ave.....	Feb. 26, 1915
223RD STREET: 110th Ave. to Hempstead Ave.....	Dec. 22, 1915
* Not recorded with the Board of Estimate and Apportionment.	

STREET OPENING MAPS APPROVED BY THE BOARD OF ESTIMATE AND APPORTIONMENT

	<i>Approved Feet</i>	
HAZEN STREET: Astoria Ave. to Berrian Ave. (Rule and Damage)	May 11	4,200
HOOD STREET: Hazen St. to Ditmars Ave. (Rule and Damage)	May 11	600

17TH STREET: Queens Blvd. to Jackson Ave. (Supplementary Rule and Damage)	Apr. 27	5,600
PENELOPE STREET: Tremont St. to Queens Blvd. (Supplementary Rule and Damage)	Mar. 16	7,650
CALAMUS STREET: Maurice Ave. to Grand St. (Damage) ..	Apr. 13	3,600
N. CONDUIT AVENUE: Sutter Ave. to 79th St. (Rule)	Apr. 13	400
N. CONDUIT AVENUE: Sutter Ave. to 79th St. (Damage) ..	June 29	
SUTTER AVENUE: Borough Line to Pitkin Ave. (Rule) ..	Apr. 13	
SUTTER AVENUE: Borough Line to Pitkin Ave. (Damage) ..	June 29	1,440
PITKIN AVENUE: Borough Line to Sutter Ave. (Rule and Damage)	June 22	2,500
76TH STREET: Atlantic Ave. to N. Conduit Ave. (Rule and Damage)	June 22	2,700
HOMER LEE AVENUE: Canonbury Road to Burtis St. (Rule and Damage)	June 8	1,300
VAN COTT AVENUE: Maurice Ave. to Grand St. (Rule and Damage)	Sept. 21	1,600
PROCTOR STREET: Metropolitan Ave. to Myrtle Ave. (Rule and Damage)	Sept. 21,	3,835
McCOMB PLACE: Edsall Ave. to Myrtle Ave. (Rule and Damage)	Sept. 21,	1,550
NAGY STREET: Metropolitan Ave. to Jansen St.; Nassau Ave. to Grand St. (Supplementary Rule and Damage)	Dec. 14	6,635
VERMONT AVENUE: Highland Blvd. to the angle point S. of Cypress Ave. (Rule and Damage)	Nov. 30	3,550
CROSBY AVENUE: Vermont Ave. to Bulwer Pl. (Rule and Damage)	Nov. 30	750
FIRTH AVENUE: Grand St. to Juniper Ave. (Damage) ..	Dec. 14	
FIRTH AVENUE: Grand St. to Juniper Av. (Amended Rule) ..	July 19	4,700
72ND AVENUE: Vleigh Road to 1710' westerly (Rule and Damage)	June 29	1,710
BOERUM AVENUE: Jackson Ave. to L. I. R. R. (Rule and Damage)	Nov. 2	7,900
LOWERY STREET: Skillman Ave. to Queens Blvd.; Gould Ave. to Borden Ave. (Damage)	Dec. 14	3,000
LOWERY STREET: Skillman Ave. to Queens Blvd.; Gould Ave. to Borden Ave. (Rule)	Nov. 2	
ARCHER STREET: Van Wyck Ave. to Sutphin Rd. (Supplementary Rule and Damage)	Oct. 19	2,000
91ST AVENUE: Borough Line to 84th St. (Rule and Damage)	Oct. 5	2,300
84TH STREET: 91st Ave. to 90th Rd. (Rule and Damage) ..	Oct. 5	240
MAURICE AVENUE: Hanover Ave. to Junction Ave. (Rule and Damage)	Oct. 5	417
HORTON STREET: Hanover Ave. to Junction Ave. (Rule and Damage)	Oct. 5	412
IVY STREET: Hanover Ave. to Junction Ave. (Rule and Damage)	Oct. 5	416
JENNINGS STREET: Hanover Ave. to Junction Ave. (Rule and Damage)	Oct. 5	420
LEWIS STREET: Hanover Ave. to Junction Ave. (Rule and Damage)	Oct. 5	424
COOPER AVENUE: Epsilon Pl. to Proctor St. (Rule)	Oct. 5	4,000
CENTRAL AVENUE: Edsall Av. to Woodhaven Av. (Rule) ..	Oct. 5	5,000

12TH STREET: Fillmore Ave. to Astoria Ave. (Rule and Damage)	Mar. 16	9,687
YELLOWSTONE AVENUE: Woodhaven Ave. to Queens Blvd. (Rule and Damage)	Mar. 2	
GLEANE STREET: Baxter Ave. to Kingsland Ave. (Rule and Damage)	Jan. 5	2,850
HAMPTON STREET: Baxter Ave. to Kingsland Ave. (Rule and Damage)	Jan. 5	2,600
QUEENS BOULEVARD: Ramsey St. to Middagh St.; Reeder Pl. to Broadway (Profile)	Mar. 16	515
		<hr/> 93,501

STREET OPENING SURVEYS COMPLETED

ARMAND PLACE: Walter St. to Charlotte Pl.	440
CHARLOTTE PLACE: Dill Pl. to Alden Ave.	2,000
DILL PLACE: Myrtle Ave. to Cooper Ave.	1,390
FOREST AVENUE: Walter St. to Summerfield St.	500
MILLWOOD AVENUE: Walter St. to Slocum St.	1,400
SYLVAN STREET: Millwood Ave. to St. Felix Ave.	420
WALTER STREET: Millwood Ave. to Cooper Ave.	1,300
TRAUTWINE STREET: Fisk Ave. to Ramsey St.	455
FAIRBANKS AVENUE: Broadway to Baxter Ave.	1,400
25TH STREET: Baxter Ave. to Roosevelt Ave.	550
BAXTER AVENUE: (Westerly half) Fairbanks Av. to 25th St.	200
MAURICE AVENUE: Hanover Ave. to Junction Ave.	417
HORTON STREET: Hanover Ave. to Junction Ave.	412
IVY STREET: Hanover Ave. to Junction Ave.	416
JENNINGS STREET: Hanover Ave. to Junction Ave.	420
LEWIS AVENUE: Hanover Ave. to Junction Ave.	424
HEISER STREET: Barnett Ave. to Greenpoint Ave.	2,540
SOUTH STREET: New York Ave. to Waltham St.	2,300
SUTTER AVENUE: Brooklyn Borough Line to Pitkin Ave..	1,440
N. CONDUIT AVENUE: Sutter Ave. to 79th St.	400
BELL AVENUE: Crocheron Ave. to Northern Blvd.	2,100
STONE STREET: Queens Blvd. to Greenpoint Ave.; Skillman Ave. to Barnett Ave.	1,360
DICKSON STREET: Skillman Ave. to Barnett Ave.	1,360
25th STREET: Sigel Ave. to Bulkhead Line of East River.	3,600
SIGEL AVENUE: Astoria Ave. to 12th St.	2,300
RIKER AVENUE: 12th St. to 25th St.	800
SCHURZ AVENUE: Astoria Ave. to Berrian Ave.	4,200
	<hr/> 34,804

RULE MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE
AND APPORTIONMENT FOR APPROVAL

	<i>Forwarded</i>	<i>Feet</i>
PENELOPE STREET: Tremont St. to Queens Blvd.....	Jan. 18	7,650
SUTTER AVENUE: Brooklyn Borough Line to Pitkin Ave..	Mar. 31	2,323
N. CONDUIT AVENUE: Sutter Ave. to 79th St.....	Mar. 31	665
*17TH STREET: Queens Blvd. to Jackson Ave.....	Mar. 31	5,600
YELLOWSTONE AVENUE: Woodhaven Ave. to Queens Boulevard	Jan. 25	5,310
91ST AVENUE: Brooklyn Borough Line to 84th St.....	Mar. 31	2,517
84TH STREET: 91st Ave. to 90th Road.....	Mar. 31	253
*12TH STREET: Fillmore Ave. to Astoria Ave.....	Feb. 26	9,687
76TH STREET: Atlantic Ave. to N. Conduit Avenue.....	June 5	2,700
PITKIN AVENUE: Borough Line to Sutter Ave.....	June 5	2,500
COOPER AVENUE: Epsilon Pl. to Proctor St.....	May 17	4,000
CENTRAL AVENUE: Edsall Ave. to Woodhaven Ave.....	May 17	5,000
HOMER LEE AVENUE: Canonbury Rd. to Burtis St.....	May 21	1,300
72ND AVENUE: Vleigh Rd. westerly 1710'; 30-foot strip....	June 25	1,710
FIRTH AVENUE: Grand St. to Juniper Ave.....	June 26	4,700
PROCTOR STREET: Metropolitan Ave. to Myrtle Ave.....	July 9	3,835
*ARCHER STREET: Van Wyck Ave. to Sutphin Rd.....	Aug. 22	2,000
McCOMB PLACE: Myrtle Ave. to Edsall Ave.....	July 9	1,550
VAN COTT AVENUE: Maurice Ave. to Grand St.....	Aug. 23	1,600
WOODSIDE AVENUE: Jackson Ave. to Broadway.....	July 9	9,500
COOPER AVENUE: Epsilon Pl. to Proctor St.....	Sept. 11	4,000
CENTRAL AVENUE: Edsall Ave. to Woodhaven Ave.....	Sept. 11	5,000
*FIRTH AVENUE: Grand St. to Juniper Ave.....	July 19	4,700
MAURICE AVENUE: Hanover Ave. to Junction Ave.....	Sept. 15	417
HORTON STREET: Hanover Ave. to Junction Ave.....	Sept. 15	412
IVY STREET: Hanover Ave. to Junction Ave.....	Sept. 15	416
JENNINGS STREET: Hanover Ave. to Junction Ave.....	Sept. 15	420
LEWIS STREET: Hanover Ave. to Junction Ave.....	Sept. 15	424
BOERUM AVENUE: Jackson Ave. to L. I. R. R.....	Sept. 29	7,900
CROSBY AVENUE: Vermont Ave. to Bulwer Pl.....	Oct. 25	750
VERMONT AVENUE: Highland Blvd. to angle point S. of Cypress Ave.	Oct. 25	3,550
LOWERY STREET: Skillman Ave. to Queens Blvd.; Gould Ave. to Borden Ave.....	Oct. 29	3,000
25TH STREET: Sigel Ave. to East River.....	Nov. 12	3,600
SIGEL AVENUE: Astoria Ave. to 12th St.....	Nov. 12	2,300
RIKER AVENUE: 12th St. to 25th St.....	Nov. 12	800
NAGY STREET: Metropolitan Ave. to Jansen Ave.; Nassau Ave. to Grand St.....	Nov. 22	6,635
BURROUGH AVENUE: Borden Ave. to Woodside Ave....	Dec. 11	184
FOSTER AVENUE: Skillman Ave. to Greenpoint Ave.....	Dec. 28	5,500
STONE STREET: Skillman Ave. to Greenpoint Ave.....	Dec. 28	760
UNNAMED STREET (Woodside Ave.): Foster Ave. to Stone St.	Dec. 28	150
PUBLIC PARK* Bounded by Foster Ave., Greenpoint Ave. and Stone St.....	Dec. 28	

125,318

* Amended Map.

DRAFT DAMAGE MAPS COMPLETED AND FORWARDED TO THE BOARD OF
ESTIMATE AND APPORTIONMENT FOR APPROVAL

	<i>Forwarded</i>	<i>Feet</i>
*17TH STREET: Queens Boulevard to Jackson Ave.....	Mar. 23	5,600
YELLOWSTONE AVENUE: Queens Boulevard to Wood- haven Ave.	Jan. 25	5,310
PENELOPE STREET: Queens Boulevard to Tremont St....	Jan. 18	7,650
91ST AVENUE: Brooklyn Borough Line to 84th St.....	Mar. 31	2,517
84TH STREET: 91st Ave. to 90th Rd.....	Mar. 31	253
*12TH STREET: Fillmore Ave. to Astoria Ave.....	Feb. 26	9,687
CALAMUS AVENUE: Maurice Ave. to Grand St.	Mar. 31	3,600
DIVISION AVENUE: Grand St. to Caldwell Ave.....	Mar. 31	1,683
LEWIS AVENUE: Division Ave. to Bloomfield St.....	Mar. 31	320
BLOOMFIELD STREET: Caldwell Ave. to Bowne Pl.....	Mar. 31	460
BOWNE PLACE: Bloomfield St. to Sibley St.....	Mar. 31	170
SIBLEY STREET: Bowne Pl. to Woodhaven Ave.....	Mar. 31	868
PHELPS AVENUE: Bet. adjoining sections of Sibley St.....	Mar. 31	130
MAZEAU STREET: Falkner St. to Grand St., and Grand St. to Metropolitan Ave.....	June 25	6,850
76TH STREET: Atlantic Ave. to N. Conduit Ave.....	June 5	2,700
PITKIN AVENUE: Brooklyn Borough Line to Sutter Ave....	June 5	2,500
COOPER AVENUE: Epsilon Pl. to Proctor St.....	May 17	4,000
CENTRAL AVENUE: Edsall Ave. to Woodhaven Ave.....	May 17	5,000
HOMER LEE AVENUE: Canonbury Road to Burtis St.....	May 2	1,300
72ND AVENUE: Vleigh Road Westerly 1710 feet (30-foot strip)	June 25	1,710
SUTTER AVENUE: Brooklyn Borough Line to Sutter Ave..	June 25	1,440
N. CONDUIT AVENUE: Sutter Ave. to 79th St.....	June 25	400
PROCTOR STREET: Metropolitan Ave. to Myrtle Ave.....	July 9	3,835
MCCOMB PLACE: Myrtle Ave. to Edsall Ave.....	July 9	1,550
WOODSIDE AVENUE: Jackson Ave. to Broadway.....	July 9	9,500
*ARCHER STREET: Van Wyck Ave. to Sutphin Road.....	Aug. 22	2,000
VAN COTT AVENUE: Maurice Ave. to Grand St.....	Aug. 23	1,600
MAURICE AVENUE: Hanover Ave. to Junction Ave.....	Sept. 15	417
HORTON STREET: Hanover Ave. to Junction Ave.....	Sept. 15	412
IVY STREET: Hanover Ave. to Junction Ave.....	Sept. 15	416
JENNINGS STREET: Hanover Ave. to Junction Ave.....	Sept. 15	420
LEWIS STREET: Hanover Ave. to Junction Ave.....	Sept. 15	424
BOERUM AVENUE: Jackson Ave. to L. I. R. R.....	Sept. 29	7,900
CROSBY AVENUE: Vermont Ave. to Bulwer Pl.....	Oct. 25	750
VERMONT AVENUE: Highland Blvd. to angle point S. of Cypress Ave.....	Oct. 25	3,550
LOWERY STREET: Skillman Ave. to Queens Blvd., Gould Ave. to Borden Ave.....	Nov. 19	3,000
FIRTH AVENUE: Grand St. to Juniper Ave.....	Nov. 19	4,700
NAGY STREET: (Metropolitan Ave. to Jansen Ave.; Nassau Ave. to Grand St.....	Nov. 22	6,635
FOSTER AVENUE: Skillman Ave. to Greenpoint Ave.....	Dec. 28	5,500
STONE STREET: Skillman Ave. to Greenpoint Ave.....	Dec. 28	760
UNNAMED (Woodside Ave.): Foster Ave. to Stone St.....	Dec. 28	150
PUBLIC PARK: Bounded by Foster Ave., Greenpoint Ave., and Stone St.	Dec. 28	
PUBLIC PARK: Bounded by Foster Ave., Woodside Ave and Stone St.	Dec. 28	

*Amended Map.

116,667

PROFILE MAPS COMPLETED AND FORWARDED TO THE BOARD OF ESTIMATE
AND APPORTIONMENT FOR APPROVAL.

*QUEENS BOULEVARD: Van Dam St. to Hillside Ave.Feb. 6 35,000

FINAL DAMAGE MAPS COMPLETED AND FORWARDED TO THE CORPORATION
COUNSEL.

	<i>Forwarded</i>	<i>Feet</i>
33RD STREET: Roosevelt Ave. to Jackson Ave. ....Feb. 27		2,825
WILLOW STREET: Grand St. to Columbine Ave. ....Mar. 1		1,500
NETCONG AVENUE: Chichester Ave. to Rocton St. ....Feb. 2		200
SUTPHIN ROAD: Hillside Ave. to Jamaica Ave., and L. I. R. R. to Rockaway Blvd. ....Jan. 11		12,925
CAMPION STREET: Jamaica Ave. to Archer St. ....Jan. 11		1,200
6TH STREET: Stryker Ave. to 7th St. ....June 5		1,890
7TH STREET: Jackson Ave. to 150' East of Stryker Ave. ....June 5		2,520
8TH STREET: Jackson Ave. to Polk Ave. ....June 5		1,700
195TH STREET: 98th Ave. to 99th Ave. ....June 22		225
SOTHERN AVENUE: Queens Blvd. to Corona Ave. ....June 21		6,200
THEODORE STREET: Astoria Ave. to Bulkhead Line. ....June 21		5,400
ATLANTIC AVENUE: Brooklyn Borough Line to Van Wyck Ave. ....June 11		15,225
ST. FELIX AVENUE: Cooper Ave. to Charlotte Pl. ....July 11		2,130
*17TH STREET: Queens Blvd. to Jackson Ave. ....Aug. 11		5,600
GLEANE STREET: Baxter Ave. to Kingsland Ave. ....Oct. 5		2,850
HAMPTON STREET: Baxter Ave. to Kingsland Ave. ....Oct. 5		2,600
SHERIDAN AVENUE: Flinn Ave. to Spring Creek. ....Nov. 2		1,630
		<hr/> 66,620

* Amended Map.

BENEFIT MAPS COMPLETED AND FORWARDED TO THE CORPORATION COUNSEL

	<i>Forwarded</i>	<i>Acres</i>
*33RD STREET: Roosevelt Ave. to Jackson Ave. ....Feb. 27		15.3
*WILLOW AVENUE: Grand St. to Columbine Ave. ....Mar. 1		24.0
*NETCONG AVENUE: Chichester Ave. to Rocton St. ....Feb. 2		5.1
*SUTPHIN ROAD: Hillside Ave. to Jamaica Ave.; and L. I. R. to Rockaway Blvd. ....Jan. 11		885.3
CAMPION STREET: Jamaica Ave. to Archer St. ....Jan. 11	
6TH STREET: Stryker Ave. to 7th St. ....June 5		75.3
7TH STREET: Jackson Ave. to 150' S. of Stryker Ave. ....June 5		75.3
8TH STREET: Jackson Ave. to Polk Ave. ....June 5		75.3
50TH STREET: Astoria Ave. to Polk Ave.; Flushing Bay to 100' S. of		
51ST STREET: Polk Ave. and Corona Ave. to Queens Blvd. ....June 9		3488.0
195TH STREET: 98th Ave. to 99th Ave. ....June 22		3.0
SOTHERN AVENUE: Queens Blvd. to Corona Ave. ....June 21		68.2
THEODORE STREET: Astoria Ave. to East River. ....June 21		30.6
*ATLANTIC AVENUE: Brooklyn Borough Line to Van Wyck Ave. ....June 11		212.0
ST. FELIX AVENUE: Cooper Ave. to Charlotte Pl. ....July 11		15.8
17TH STREET: Queens Blvd. to Jackson Ave. ....Aug. 11		28.6
GLEANE STREET: Baxter Ave. to Kingsland Ave. ....Oct. 5		29.5
HAMPTON STREET: Baxter Ave. to Kingsland Ave. ....Oct. 5		
SHERIDAN AVENUE: Flinn Ave. to Spring Creek. ....Nov. 2		38.9
		<hr/> 4370.2

* Amended Map.

STREET OPENING MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT
PENDING APPROVAL

WOODSIDE AVENUE: Jackson Ave. to Broadway (Rule and Damage).
 FIRTH AVENUE: Grand St. to Juniper Ave. (Rule).
 25TH STREET: Sigel Ave. to East River (Rule).
 SIGEL AVENUE: Astoria Ave. to 12th St. (Rule).
 RIKER AVENUE: 12th St. to 25th St. (Rule).
 BURROUGH AVENUE: Borden Ave. to Woodside Ave. (Supp. Rule).
 FOSTER AVENUE: Skillman Ave. to Greenpoint Ave. (Rule and Dam.).
 STONE STREET: Skillman Ave. to Greenpoint Ave. (Rule and Dam.).
 UNNAMED STREET (Woodside Ave.): Foster Ave. to Stone St. (Rule and Dam.).
 PUBLIC PARK: Foster Ave. Green point Ave. and Stone St. (Rule and Dam.).
 PUBLIC PARK: Foster Ave., Woodside Ave. and Stone St. (Rule and Dam.).
 COOPER AVENUE: Epsilon Pl. to Proctor St. (Damage).
 CENTRAL AVENUE: Edsall Ave. to Woodhaven Ave. (Damage).

Status of Street Opening Maps Not Completed		Length in Feet	Percentage Completed			
			N.S.—Not started. C.T.—Completed and transmitted. C.—Comp't'd, but not transmitted.			
Proceeding	Limits		Rule	Draft Damage	Final Damage	Benefit
Cooper Ave.....	Epsilon Pl. to Proctor St.....	4,000	C.T.	C.T.	N.S.	N.S.
Central Ave.....	Edsall Ave. to Woodhaven Ave.....	5,000	C.T.	C.T.	N.S.	N.S.
Firth Ave.....	Grand St. to Juniper Ave.....	4,700	C.T.	C.T.	N.S.	N.S.
Alden Ave.....	L. I. R. R. to Pansy St.....	2,500	N.S.	N.S.	N.S.	N.S.
Thew Ave.....	Penelope St. to Nassau Ave.....	6,000	N.S.	N.S.	N.S.	N.S.
Rockaway Blvd.....	Elderts Lane to Ocean Ave.....	7,670	Discontinued March 30, 1917			
Maure Ave.....	Metropolitan Ave. to Wisner Pl., At- lantic Ave. to Liberty Ave.....	4,800	N.S.	N.S.	N.S.	N.S.
Whitlock Ave.....	Brown Pl. to Mazeau St.....	1,600	C.T.	C.T.	N.S.	N.S.
Everest St.....	Ness Pl. to Donnell Pl.....	300	C.T.	C.T.	N.S.	N.S.
Homans Ave.....	Division Ave. to Calamus Rd.....	380	C.T.	C.T.	N.S.	N.S.
Donnell Pl.....	Everest St. to Dysch St.....	200	C.T.	C.T.	N.S.	N.S.
Pitkin Ave.....	Brooklyn Borough Line to Sutter Ave.	2,500	C.T.	C.T.	N.S.	N.S.
76th St.....	Atlantic Ave. to N. Conduit Ave....	2,700	C.T.	C.T.	N.S.	N.S.
Foster Ave.....	Skillman Ave. to Greenpoint Ave....	5,500	C.T.	C.T.	N.S.	N.S.
Stone St.....	Skillman Ave. to Greenpoint Ave....	760	C.T.	C.T.	N.S.	N.S.
Bliss St.....	Skillman Ave. to Borden Ave.....	3,500	N.S.	N.S.	N.S.	N.S.
Carolin St.....	Skillman Ave. to Borden Ave.; An- able Ave. to Borden Ave.....	3,500	N.S.	N.S.	N.S.	N.S.
Hazen St.....	Astoria Ave. to Berrian Ave.....	4,200	C.T.	C.T.	20%	C.
Hood St.....	Hazen St. to Ditmars Ave.....	600	C.T.	C.T.	20%	C.
Boerum Ave.....	Jackson Ave. to L. I. R. R. (White- stone Division).....	7,900	C.T.	C.T.	20	C.
Borden Ave.....	Laurel Hill Blvd. to Grand St.....	8,300	N.S.	C.T.	N.S.	N.S.

Status of Street Opening Maps Not Completed		Length in Feet	Percentage Completed			
Proceeding	Limits		N.S.—Not started. C.T.—Completed and transmitted. C.—Comp't'd, but not transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
Broadway.....	Newtown Rd. to Queens Blvd.....	12,000	C.T.	99½	N.S.	N.S.
Caldwell Ave.....	Harriet Ave. to Hazen St.; Corinth Ave. to Queens Blvd.....	4,210	60	60	90%	90
Woodside Ave.....	Jackson Ave. to Broadway.....	9,500	C.T.	C.T.	C.	C.
Sheridan Ave.....	Flynn Ave. to Spring Creek.....	1,630	C.T.	C.T.	C.T.	C.T.
Armand Pl.....	Walter St. to Charlotte Pl.....	440	2	2	N.S.	N.S.
Charlotte Pl.....	Dill Pl. to Alden Ave.....	2,000	N.S.	N.S.	N.S.	N.S.
Dill Pl.....	Myrtle Ave. to Cooper Ave.....	1,390	N.S.	N.S.	N.S.	N.S.
Forest Ave.....	Walter St. to Summerfield St.....	500	N.S.	N.S.	N.S.	N.S.
Millwood Ave.....	Walter St. to Slocum St.....	1,400	N.S.	N.S.	N.S.	N.S.
Sylvan Ave.....	Millwood Ave. to St. Felix Ave.....	420	N.S.	N.S.	N.S.	N.S.
Walter Ave.....	Cooper Ave. to Millwood St.....	1,300	N.S.	N.S.	N.S.	N.S.
Fairbanks Ave.....	Broadway to Baxter Ave.....	1,400	N.S.	N.S.	N.S.	N.S.
25th St.....	Baxter Ave. to Roosevelt Ave.....	550	N.S.	N.S.	N.S.	N.S.
Baxter Ave.....	Fairbanks Ave. to 25th St.....	200	N.S.	N.S.	N.S.	N.S.
Agnes Pl.....	Myrtle Ave. to L. I. R. R.....	1,400	N.S.	N.S.	N.S.	N.S.
Bertha Pl.....	Myrtle Ave. to Varian St.....	1,170	N.S.	N.S.	N.S.	N.S.
Constantia Pl.....	Myrtle Ave. to Varian St.....	1,160	N.S.	N.S.	N.S.	N.S.
Berrian Ave.....	Ford St. to Agnes Pl.....	500	N.S.	N.S.	N.S.	N.S.
Weisse Ave.....	Varian St. to L. I. R. R.....	180	N.S.	N.S.	N.S.	N.S.
85th Rd.....	83rd St. to 91st St.....	2,040	N.S.	N.S.	N.S.	N.S.
South St.....	New York Ave. to Waltham St.....	2,300	N.S.	N.S.	N.S.	N.S.
Homer Lee Ave.....	Canonbury Rd. to Burtis St.....	1,300	C.T.	C.T.	N.S.	98
91st Ave.....	Brooklyn Borough Line to 84th St..	2,300	C.T.	C.T.	60	60
84th St.....	91st Ave. to 90th Rd.....	240	C.T.	C.T.	N.S.	N.S.
Fulton St.....	Fisk Ave. to Kolyer St.....	1,200	C.T.	C.T.	C.	C.
Finch Pl.....	Kolyer St. to Plover Pl.....	960	C.T.	C.T.	N.S.	C.
Vermont Ave.....	Highland Blvd. to angle S. of Cy- press Ave.....	3,550	C.T.	C.T.	N.S.	N.S.
Crosby Ave.....	Vermont Ave. to Bulwer Pl.....	750	C.T.	C.T.	N.S.	N.S.
12th St.....	Fillmore Ave. to Astoria Ave.....	9,687	C.T.	C.T.	99	99
Mazeau St.....	Falkner St. to Grand St.; Grand St. to Metropolitan Ave.....	6,850	C.T.	C.T.	40	40
Amity St.....	Wateredge Ave. to Main St.....	2,375	C.T.	N.S.	N.S.	N.S.
Roosevelt Ave.....	Wateredge Ave. to angle east of Hewitt Ave.....	1,200	C.T.	N.S.	N.S.	N.S.
79th St.....	Liberty Ave. to Wortman Ave.....	3,883	C.T.	N.S.	C.	C.
80th Ave.....	Atlantic Ave. to Liberty Ave.....	1,970	C.T.	N.S.	C.	C.
Proctor St.....	Metropolitan Ave. to Myrtle Ave...	3,835	C.T.	C.T.	50	50
McComb Pl.....	Myrtle Ave. to Edsall Ave.....	1,550	C.T.	C.T.	50	50

Status of Street Opening Maps Not Completed		Length in Feet	Percentage Completed			
Proceeding	Limits		N.S.—Not started. C.T.—Completed and transmitted. C.—Comp't'd, but not transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
Calamus Ave.....	Maurice Ave. to Grand St.....	3,600	C.T.	C.T.	98	98
Division Ave.....	Grand St. to Caldwell Ave.....	1,683	C.T.	C.T.	30	95
Lewis Ave.....	Division Ave. to Bloomfield St.....	320	C.T.	C.T.	30	95
Bloomfield St.....	Caldwell Ave. to Bowne Pl.....	460	C.T.	C.T.	30	95
Bowne Pl.....	Bloomfield St. to Sibley St.....	170	C.T.	C.T.	30	95
Sibley St.....	Bowne Pl. to Woodhaven Ave.....	868	C.T.	C.T.	30	95
Phelps Ave.....	Bet. adjoin. sections of Sibley St....	130	C.T.	C.T.	30	95
Gleane St.....	Baxter Ave. to Kingsland.....	2,850	C.T.	C.T.	C.T.	C.T.
Hampton St.....	Baxter Ave. to Kingsland.....	2,600	C.T.	C.T.	C.T.	C.T.
72nd Ave.....	Vleigh Rd. westerly 1710 ft. (Sewer Easement).....	1,710	C.T.	C.T.	99	99
Chicago St.....	Corona Ave. to Queens Blvd.....	2,750	C.T.	C.T.	N.S.	N.S.
Parcell St.....	Gay St. to Corona Ave.....	1,100	C.T.	C.T.	N.S.	N.S.
Toledo St.....	Corona Ave. to Queens Blvd.....	3,580	C.T.	C.T.	N.S.	N.S.
Medina Pl.....	Cerry Ave. to Corona Ave.....	700	C.T.	C.T.	N.S.	N.S.
Petrolle St.....	Tremont Ave. to Queens Blvd.....	7,650	C.T.	C.T.	N.S.	N.S.
Lowery St.....	Skillman Ave. to Queens Blvd.; Gould Ave. to Borden Ave.....	1,900	C.T.	C.T.	N.S.	N.S.
Trautwine St.....	Fisk Ave. to Ramsey St.....	455	C.T.	N.S.	N.S.	N.S.
Van Cott Ave.....	Grand St. to Maurice Ave.....	1,600	C.T.	C.T.	N.S.	N.S.
Public Pl.....	Bounded by Maurice Ave.; Van Cott Ave.; Perry Ave., etc.....	....	N.S.	N.S.	N.S.	N.S.
217th St.....	Queens Blvd. to Jackson Ave.....	5,600	C.T.	C.T.	C.T.	C.T.
N. Conduit Ave.....	Sutter Ave. to 79th St.....	400	C.T.	C.T.	N.S.	N.S.
Sutter Ave.....	Brooklyn Boro. Line to Pitkin Ave....	1,440	C.T.	C.T.	N.S.	N.S.
Heiser St.....	Barnett Ave. to Greenpoint Ave.....	2,540	N.S.	N.S.	N.S.	N.S.
Bell Ave.....	35th Ave. to Northern Blvd.....	2,100	5	5	N.S.	N.S.
Stone St.....	Greenpoint Ave. to Queens Blvd.....	260	N.S.	N.S.	N.S.	N.S.
Stone St.....	Skillman Ave. to Greenpoint Ave....	1,360	N.S.	N.S.	N.S.	N.S.
Dickson St.....	Skillman Ave. to Barnett Ave.....	1,360	N.S.	N.S.	N.S.	N.S.
Laurel Hill Ave.....	Skillman Ave. to Anable Ave.....	2,600	N.S.	N.S.	N.S.	N.S.
Maurice Ave.....	Hanover Ave. to Junction Ave.....	417	C.T.	C.T.	N.S.	N.S.
Horton St.....	Hanover Ave. to Junction Ave.....	412	C.T.	C.T.	N.S.	N.S.
Ivy St.....	Hanover Ave. to Junction Ave.....	416	C.T.	C.T.	N.S.	N.S.
Jennings St.....	Hanover Ave. to Junction Ave.....	420	C.T.	C.T.	N.S.	N.S.
Lewis St.....	Hanover Ave. to Junction Ave.....	424	C.T.	C.T.	N.S.	N.S.
St. Felix Ave.....	Cooper Ave. to Charlotte Pl.....	2,130	C.T.	C.T.	C.T.	C.T.
*Archer St.....	Van Wyck Ave. to Sutphin Rd.....	2,000	C.T.	C.T.	N.S.	N.S.
25th St.....	Sigel Ave. to Bulkhead Line of East River.....	3,600	C.T.	N.S.	N.S.	N.S.

Status of Street Opening Maps Not Completed		Length in Feet	Percentage Completed			
Proceeding	Limits		N.S.—Not started. C.T.—Completed and transmitted. C.—Comp't'd, but not transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
Sigel Ave.....	Astoria Ave. to 12th St.....	2,300	C.T.	N.S.	N.S.	N.S.
Riker Ave.....	12th St. to 25th St.....	800	C.T.	N.S.	N.S.	N.S.
Burrough Ave.....	(Closing Map) Sinclair Ave. to pt. 184.38 south.....	184	C.T.	N.S.	N.S.	N.S.
Nagy St.....	(Supplemental) Metropolitan Ave. to Jansen Ave.; Nassau Ave. to Grand St.....	6,635	C.T.	C.T.	N.S.	N.S.
Unnamed Street.....	(Woodside Ave.) Foster Ave. to Stone St.....	150	C.T.	....	C.T.	N.S.
Public Park.....	Bounded by Foster Ave; Greenpoint Ave., Stone St.....	....	C.T.	....	N.S.	N.S.
Public Park.....	Bounded by Foster Ave., Woodside Ave.....	....	C.T.	....	N.S.	N.S.

LEGAL OPENING PROCEEDINGS AUTHORIZED BY THE LOCAL BOARD

Authorized

37TH STREET: Hunt St. to Berrian Ave.....Feb. 1
 BELL AVENUE: Crocheron Ave. to Broadway.....Jan. 25
 SUTTER AVENUE: Hatch Ave. to Plattwood Ave.....Feb. 27
 PLATTWOOD AVENUE: Sutter Ave. to Rockaway Blvd.....Feb. 27
 SUWANEE AVENUE: Rockaway Blvd. to Sutphin Rd.....Feb. 27
 WEISSE AVENUE: Myrtle Ave. to Varian St.....Mar. 1
 MORTON AVENUE: Central Ave. to property line 40' N. of

Hosack St.Mar. 1
 13TH STREET: 12th St. to Polk Ave.....Mar. 22
 POLK AVENUE: 13th St. to Fisk Ave.....Mar. 22
 LOUONA AVENUE: Corona Ave. to Way Ave.....Mar. 22
 154TH STREET: Barclay Ave. to Sanford Ave.....Mar. 29
 43RD STREET: Polk Ave. to Roosevelt Ave.....Apr. 12
 43RD STREET: Polk Ave. to Sackett St.....Apr. 12
 44TH STREET: Polk Ave. to Roosevelt Ave.....Apr. 12
 44TH STREET: Polk Ave. to Sackett St.....Apr. 12
 45TH STREET: Polk Ave. to Roosevelt Ave.....Apr. 12
 45TH STREET: Polk Ave. to Sackett St.....Apr. 12
 STILES PLACE: Jackson Ave. to Station Road.....May 24
 STATION ROAD: Stiles Pl. to Cemetery Lane.....May 24
 85TH DRIVE: 80th St. to 83rd St.....July 27
 N. CONDUIT AVENUE: 79th St. to Blake Ave.....Sept. 20
 ROGERS STREET: Vernon Ave. to easterly line of the Barge Canal

TerminalOct. 18
 155TH STREET: South St. to Yukon Ave.....Dec. 20
 ULSTER AVENUE: Sutphin Road to Smith St.....Dec. 20
 FREEHOLD STREET: Ulster Ave. to Baisley Blvd.....Dec. 20
 BAISLEY BOULEVARD: Rockaway Boulevard to Byron St.....Dec. 20
 BYRON STREET: Baisley Boulevard to Cornell Basin.....Dec. 20
 N. CONDUIT AVENUE: Baisley Blvd. to 132nd St.....Dec. 20
 132ND STREET: N. Conduit Ave. to Jamaica Disposal Plant.Dec. 20

MAPS AUTHORIZED BY THE LOCAL BOARD

EDSALL AVENUE and Proctor St. intersection. Grade change.

PUBLIC PARK: Junction of Corona Ave., Parcell St. and Chicago St.

T. B. No. 720	Apr.	12
BOULEVARD: 12th Ave. to 14th Ave. (Elimination)	Apr.	30
KOERNER STREET: L. I. R. R. to Van Buren St.	T. B. No. 736..	May 3
MANHEIM STREET: L. I. R. R. to Seabury St.		
WEIMAR STREET: L. I. R. R. to Queens Blvd.		
LEWIS AVENUE: L. I. R. to Queens Blvd		
HOMANS AVENUE: Wool St. to Queens Blvd.	T. B. No. 728.....	May 3
GRAND STREET: Ditmars Ave. to Berrian Ave.,		
1ST STREET: Woodside Ave. to Skillman Ave.,		
46th STREET: Roosevelt Ave. to old Spruce St.,		
T. B. No. 732.....	May	17
T. B. No. 734.....	May	31
BERRIAN AVENUE: Riverside Ave. to Harper Ave.	T. B. No. 739...	June 14
QUAY STREET: Jackson Ave. to Berrian Ave.		
MORRIS STREET: Jackson Ave. to Berrian Ave.		
RUDDER STREET: Jackson Ave. to Berrian Ave.		
GILROY STREET: Jackson Ave. to Berrian Ave.		
SLOOP STREET: Jackson Ave. to Berrian Ave.		
HEWITT AVENUE: Jackson Ave. to Berrian Ave.		
HOLLAND AVENUE: Jackson Ave. to Berrian Ave.		
YACHT AVENUE: Jackson Ave. to Berrian Ave.	T. B. No. 743.....	June 21
KIMBALL AVENUE: 127th St. to 129th St.,		
LEFFERTS AVENUE: 134th St. to 135th St., Final Map.....		
June 21		
OLD GRAND AVENUE: 14th Ave. to 17th Ave.,	T. B. No. 740.....	June 14

RESCISSIONS

Rescinded

NEW STREET: Steinway Ave. to 21st Ave., Map change, T. B.

No. 691	Feb.	1
GROUT AVENUE: Greenpoint Ave. to Fisk Ave., Opening	Feb.	1
ARCHER STREET: Sutphin Rd. to Brenton Ave., Opening.....	Feb.	27
ROCKAWAY BOULEVARD: Elderts Lane to Conduit, Opening	Board of Estimate and Apportionment	Mar. 30

VESTINGS IN LEGAL OPENING PROCEEDINGS

Vested

PARCELL STREET: Toledo St. to Corona Ave., Parcels 54, 64,	Feb.	1
65, and 66		
ATLANTIC AVENUE: Parcels 25, 26, 34, and 36	Mar.	1
ULSTER AVENUE	Parcels 8, 29, 46, 56, 140 to 150 inclus. ;	Feb. 16
WESTCHESTER AVENUE		
DEARBORN AVENUE		
117TH AVENUE		
ELIOT AVENUE: Fresh Pond Rd. to Mary St.....	Apr.	2
50TH STREET: Hayes Ave. to Polk Avenue (old Lines) Parcels	May	2
116 and 140		
CHICAGO STREET: Parcell St. to Corona Ave.; Parcels 57,	May	2
58, 59, and 60		
72ND AVENUE: Vleigh Road westerly 1,710 feet	May	15
KEW GARDENS ROAD: Quentin St. to Lefferts Ave.....	May	15
50TH STREET: Hayes Ave. to Jackson Ave. (old lines) Parcel 77....	July	2
FERRIS STREET: Yarmouth St. to Ferry St.....	July	2
ELDERTS LANE: Jamaica Ave. to Atlantic Ave.....	Aug.	2

51ST STREET: Corona Ave. to Waldron St.....	July	26
CORONA AVENUE: Hampton St. to Rodman St.....	July	26
FISK AVENUE: Parcel 13	Sept.	1
195TH STREET: 98th Ave. to 99th Ave.....	Sept.	1
72ND AVENUE: Vleigh Road to 1710' westerly	Nov.	20
MARSTON AVENUE: Murray St. to Dunsing St.....	Nov.	2
DUNSING STREET: Matthew Pl. to Marston Ave.....	Nov.	2
MATTHEW PLACE: Dunsing St. to easterly line of Forbes St.....	Nov.	2

CONFIRMATIONS IN LEGAL OPENING PROCEEDINGS *Confirmed*

EAST RIVER PARK: Parcels 63, 64, 83, 84, 85, 88, 89, and 90.....	Jan.	11
4TH STREET: Queens Blvd. to Jackson Ave.....	Jan.	22
5TH STREET: Queens Blvd. to Woodside Ave.....	Jan.	22
ROOSEVELT AVENUE: Woodside Ave. to angle east of Hewitt Ave..	Mar.	7
SYBILLA STREET: Metropolitan Ave. to Viola Pl.....	Mar.	10
THERESA PLACE: Metropolitan Ave. to Sybilla St.....	Mar.	10
URSULA PLACE: Metropolitan Ave. to Union Turnpike.....	Mar.	10
VIOLA PLACE: Metropolitan Ave. to Ursula Place.....	Mar.	10
DITMARS AVENUE: 43rd St. to Astoria Ave.		
43RD STREET: Ditmars Ave. to Flushing Bay, except Parcels 1-A		
and 2 to 7 inclusive	Mar.	12
PIERCE AVENUE: Johnson Ave. to East River	Feb.	19
WHITNEY STREET: Academy St. to Crescent St.....	Mar.	13
OPDYKE STREET: Alburtis Ave. to Tiemann Ave.....	Mar.	29
2ND STREET: Howell Ave. to Jackson Ave.....	Mar.	30
3RD STREET: Queens Blvd. to Woodside Ave., and Stryker Ave.		
to Jackson Ave.	Mar.	30
MILTON STREET: Flushing River to Grand St.....	Apr.	12
*PALMETTO STREET: Onderdonk Ave. to Fresh Pond Rd.....	Apr.	10
*WOODBINE STREET: Myrtle Ave. to Fresh Pond Rd.....	Apr.	10
*MADISON STREET: Wyckoff Ave. to Fresh Pond Rd.....	Apr.	10
JAY AVENUE: Willow Ave. to Mueller St.	May	17

* Supplemental and amended report.

GRANDVIEW AVENUE: Metropolitan Ave. to Stanhope St., and		
Linden St. to Forest Ave.....	Mar.	30
ADDISON PLACE: Laurel Hill Blvd. to Anable Ave.; (except		
Parcel 2)	Apr.	5
GOSMAN AVENUE: Borden Ave. to Barnett Ave., and Dreyer		
Ave. to Jackson Ave.....	Apr.	5
ASHLAND STREET: Cypress Hills Cemetery to Myrtle Ave.;		
Birch St. to Spruce St.; and N. Curtis Ave. to Metropolitan Ave....	June	11
17TH AVENUE: Winthrop Ave. to Berrian Ave.....	July	6
EAST RIVER PARK: Remaining parcels and assessment.....	Feb.	14
HANCOCK STREET: Vernon Ave., 12th Street north to Vernon Ave..	Mar.	24
QUEENS BOULEVARD: Van Dam St. to Hillside Ave.....	Nov.	19
LAKE STREET: Junction Ave. to Alburtis Ave.....	Oct.	26
BANTA STREET: Junction Ave. to Van Dine St.....	Oct.	26
*COURT STREET: Brooklyn Borough Line to Wyckoff Ave.	Apr.	10
*SCHAEFFER STREET: Brooklyn Borough Line to Wyckoff Ave....	Apr.	10
*DECATUR STREET: Brooklyn Borough Line to Myrtle Ave.....	Apr.	10
*COOPER AVENUE: Brooklyn Borough Line to St. Felix Ave.....	Apr.	10
*IRVING AVENUE: Brooklyn Borough Line to Moffett St.....	Apr.	10
*COOPER AVENUE: Wyckoff Ave. to Cypress Ave.....	Apr.	10

* Combined Proceeding—appeal filed May 24, 1917.

VAN PELT STREET: Borden Ave. to Skillman Ave.....	Oct.	26
ST. JAMES STREET: Maurice Ave. to Broadway.....	Dec.	4
CORONA AVENUE: Maurice Ave. to Broadway.....	Dec.	4
SKILLMAN AVENUE: Angle point between Hulst St. and Van Pelt St. to Greenpoint Ave. (except Parcels 140 to 144 incl.).....	Oct.	31
MITCHELL AVENUE: Whitestone Ave. to Dunsing St.....	Dec.	20
CONNORTON AVENUE: Parsons Ave. to Dunsing St.....	Dec.	20

CITY STREETS BY DEDICATION, ACCORDING TO OPINIONS RENDERED BY THE
CORPORATION COUNSEL

	<i>Opinion</i>	<i>Feet</i>
ABINGDON ROAD: Lefferts Ave. to Brevoort St.....	Oct. 18	650
ALICE STREET: Murray Lane to Aspinwall St.....	Sept. 11	320
ATFIELD AVENUE: Roanoke Ave. to Suwanee Ave.....	May 12	600
BAYLIES STREET: Jackson Ave. to Polk Ave.....	Sept. 11	1,400
BAYREUTH STREET: Bowne Ave. to Parsons Ave.....	Jan. 23	770
BEAUFORT AVENUE: Ulster Ave. to Peekskill Ave.....	Jan. 17	200
BIELBY STREET: Van Cott Ave. to Rust St.....	Apr. 20	350
BURLING AVENUE: California Ave. to Delaware Ave.....	Jan. 23	140
BURTIS STREET: Cliffside Ave. to 100' east of Skidmore St.....	Aug. 3	3,700
CALAMUS ROAD: Fisk Ave. to a point 1600' easterly thereof	May 5	1,600
CALIFORNIA AVENUE: Bowne Ave. to Parsons Ave. Part 50'; part 60'	Jan. 23	800
CANONBURY ROAD: Columbus Ave. to Winsted Ave.....	Aug. 3	500
CARLISLE STREET: Jamaica Ave. to Twombly Pl.....	Jan. 12	300
CODY STREET: Wyckoff Ave. to L. I. R. R. (Manhattan Beach Division)	June 8	550
COLUMBINE AVENUE: Montgomery Ave. to Laurel Hill Blvd.	Nov. 1	750
COLUMBUS AVENUE: Hillside Ave. to Jamaica Ave.....	Aug. 3	1,660
CORNBURY PLACE: Phelps Pl. to a property line 370' east- erly	May 17	370
DAKOTA AVENUE: Roanoke Ave. to Suwanee Ave.....	May 12	500
DE PEYSTER STREET: Jackson Ave. to Polk Ave.....	May 31	1,350
DUTCHESS STREET: Queens Ave. to Oak St.....	July 3	1,350
EAST BOULEVARD: Gower Ave. to Fletcher Ave.....	Jan. 17	900
ELIOT AVENUE: Fresh Pond Rd. to Mt. Olivet Ave.....	July 10	1,120
EPSILON PLACE: Cooper Avenue to Myrtle Ave.....	Mar. 5	550
EVELYN STREET: Fresh Pond Road to Azalea St.....	Apr. 6	775
FENHURST PLACE: L. I. R. R. to Herald Ave.....	Nov. 12	1,600
FORD AVENUE: Myrtle Ave. to L. I. R. R.....	Sept. 28	1,550
FOSTERS MEADOW ROAD: Cherry Ave. to Rockaway Turnpike	Mar. 5	6,700
GAGE PLACE: Eliot Ave. to Arctic St.....	Apr. 2	170
GLASSER STREET: Sandol St. to Fresh Pond Rd.....	Feb. 20	950
GOVERN PLACE: Harris Ave. to 14th St.....	Apr. 2	300
HALLE AVENUE: Marabel Ave. to Buerman Pl.....	Mar. 5	800
HAMILTON AVENUE: Liberty Avenue to Roanoke Ave.....	Oct. 17	825
HERBERT STREET: Van Cott Avenue to Rust St.....	Apr. 20	600
HICKORY STREET: Freedom Ave. to Oxford Ave.....	July 21	450
HINMAN STREET: Metropolitan Ave. to Graeme St., except from Wayne Avenue to about 150' northerly	Jan. 18	1,650
JAMAICA AVENUE: Main St. to Hillside Ave.....	Oct. 8	17,950
JASMINE STREET: Parsons Ave. to Dutchess St.....	July 3	650

JUNIPER SWAMP ROAD: Juniper Ave. to Nagy St.....	Sept. 28	1,900
KALMIA STREET: Parsons Ave. to Dutchess St.....	July 3	520
KINGSLAND AVENUE: Broadway to a property line just east of Van Dine St.	Sept. 27	2,800
KISSENA ROAD: Hillside Ave. to 87th Ave.....	July 23	500
LEFFERTS AVENUE: Metropolitan Ave. to Cuthbert Pl....	June 29	750
LOTUS AVENUE: Cooper Ave. to Fresh Pond Rd.....	Feb. 24	700
LOW PLACE: Lurting St. to a point 125' southerly.....	Sept. 11	125
LUYDIG PLACE: Kingsland Ave. to 100' north of Hunt St....	Sept. 11	350
MCCORMICK AVENUE: Liberty Ave. to Rockaway Rd.....	May 31	700
MCCORMICK AVENUE: Rockaway Blvd. to Plattwood Ave..	Jan. 16	450
MAGNOLIA PLACE: Ash St. to Bayreuth St.....	Jan. 23	140
MANOR AVENUE: Ashland St. to a point 200' northerly....	Nov. 17	200
MERRIT STREET: Way Ave. to 51st St.....	Aug. 3	1,460
MEYER AVENUE: Rockaway Turnpike to Norris Ave....	Apr. 20	990
MINNESOTA AVENUE: Roanoke Ave. to Suwanee Ave....	May 12	530
NAGY STREET: Calamus Rd to Grand St.....	Mar. 5	2,150
NEBRASKA AVENUE: Roanoke Ave. to Suwanee Ave....	May 12	550
NICOLLS STREET: Alburtis Ave. to 175' east of Tiemann Ave.	Sept. 6	1,855
NICOLLS STREET: South Railroad Ave. to Alburtis Ave....	Sept. 21	1,400
NORTH RAILROAD AVENUE: Junction Ave. to 51st St....	Sept. 19	3,050
NORTH RAILROAD AVENUE: Junction Ave. to a property line 600' westerly	Sept. 11	600
PEARTREE AVENUE: L. I. R. R. to Park St.....	Sept. 21	400
PHELPS AVENUE: Sibley St. to Breck Pl.....	May 12	1,300
PHLOX PLACE: Bayreuth St. to California Ave.....	Jan. 23	110
PRATT PLACE: Elderts Lane to Lott Ave.....	Apr. 28	650
READS LANE: Broadway to 100' north of Frisco Ave....	Sept. 24	1,600
RENO AVENUE: Jericho Turnpike to L. I. R. R.....	May 10	150
ROCHESTER AVENUE: Sprayview Ave. to Edgemere Ave..	Oct. 18	1,050
RUE de ST. FELIX: Grandview Ave. to Ostend Pl.....	June 21	200
ROCKAWAY BEACH BOULEVARD: 100' west of 109th to Norton Creek		19,000
RYERSON STREET: Railroad Ave. to old lane 300' south of Stoutenburg St.	Mar. 5	1,650
SAMPSON STREET: Merrick Rd. to 280' westerly.....	Apr. 13	280
SAMUEL STREET: South St. to Siney Street.....	Mar. 26	700
SANDOL STREET: Cooper Ave. to Millwood Ave.....	Feb. 24	350
SHORE AVENUE: Rockaway Turnpike to West St.....	Mar. 22	2,060
SIBOUTSEN STREET: Junction Ave. to 42nd St.....	Sept. 6	700
SINCLAIR AVENUE: Fisk Ave. to a line 99' West of Lee Ave.	Apr. 9	600
SLOCUM STREET: Cooper Ave. to Kossuth Pl.....	Feb. 24	1,000
S. RAILROAD AVENUE: Junction Ave. to a property line 600' westerly	Sept. 11	600
S. RAILROAD AVENUE: Louona Ave. to Tiemann Ave....	Sept. 24	2,800
STOUTENBURG STREET: La Forge St. to Ryerson St....	Mar. 26	230
SYOSSET STREET: Woodhaven Ave. to 90' West of Bige- low Ave.	July 23	400
SYRINGA PLACE: Ash St. to Bayreuth St.....	Jan. 23	140
TEMPLE STREET: Boulevard to Crescent	Apr. 17	2,550
TIEMANN AVENUE: Nicolls St. to Corona Ave.....	Sept. 11	2,300
TROWBRIDGE STREET: Willow St. to Van Alst Ave....	Apr. 13	500
VARIAN PLACE: Ford Ave. to Dry Harbor Rd.....	Sept. 24	550

WAVECREST AVENUE: Sprayview Ave. to Edgemere Ave..	Oct. 18	1,050
WAY AVENUE: Alstynne Ave. to Martense St.....	Sept. 11	1,800
WEST STREET: South St. to Lux Pl.....	Apr. 24	700
WILLETS POINT BLVD.: 15th St. to 16th St.....	Mar. 19	200
WILLETS POINT BLVD.: Pendleton St. to Quinlan St.....	July 23	200
WOOL STREET: Lewis Ave. to a property line 100' easterly..	Oct. 26	100
WOOLEY AVENUE: Sibley St. to Gwydir St.....	May 31	1,000
18TH STREET: Woodside Ave. to Fairbanks Ave.....	June 23	680
31ST STREET: Broadway to Queens Ave.....	Oct. 5	1,500
76TH STREET: Atlantic Ave. to Rockaway Blvd.....	May 23	600
85TH ROAD: 85th St. to 86th St.....	Jan. 11	200
93RD STREET: Atlantic Avenue to Rockaway Blvd.....	Oct. 6	2,470
BEACH 94TH STREET: L. I. R. R. to Atlantic Ave.....	Apr. 17	1,200
96TH STREET: Avondale St. to Ashland St.....	June 21	250
104TH STREET: Ashland St. to Emerson St.....	Apr. 20	200
BEACH 135TH STREET: Atlantic Ocean to Jamaica Bay....	Jan. 20	3,000
BEACH 136TH STREET: Atlantic Ocean to Jamaica Bay....	Jan. 17	2,500
196TH STREET: 99th Ave. to 104th Ave.....	Apr. 24	1,000

DIVISION OF SUBSTRUCTURES AND FRANCHISES

MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of less than 40 feet. Dated March 17, 1915. T. B. No. 624.

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of 40 feet or more. Dated March 17, 1915. T. B. No. 624.

FIELD CORPS:

Number of angles turned	49
Number of feet of traverse	83,896
Number of feet of taping	28,100
Number of feet of curbs located	12,900
Number of feet of trolley track located	1,800
Number of feet of building line located	12,900
Number of sewer manholes located	71
Number of receiving basins located	37
Number of gas cut-off boxes located	50
Number of water-boxes located	43
Number of poles located	130
Number of features located, total	331
Number of sewer manholes, boxes, etc., measured in detail.....	1,013
Number of street openings in which substructure locations were made...	2,822
Number of visits made, data procured	2,464
Number of visits made, no data procured.....	1,669
	4,133

Number of feet of gas-main located	130,451
Number of feet of water-main located	90,473
Number of feet of sewer pipe located	435
Number of feet of power duct located	5,186
Number of feet of telephone duct located	37,666
Number of feet of miscellaneous pipes located	580
Number of feet of substructures located in street openings.....	264,791
Number of feet of levels	7,000

Detail measurement surveys of underground structures were completed for 26

Record Maps, involving 10.9 miles of streets.

50.1 miles of substructures were located in openings made in streets of the 1st, 2nd, 3rd and 4th Wards.
 71.3 miles of new installations were made throughout the Borough, most of which were in conformity with the standard plan.

OFFICE CORPS:

Completed and checked 2 Record Maps.
 Plotted topography, detail measurements and test pits complete on 10 Record Maps.
 Plotted topography on 10 Record Maps.
 Plotted detail measurements on 12 Record Maps.
 Plotted test pits on 11 Record Maps.
 Checked topography on 11 Record Maps.
 Detail measurements on 11 Record Maps.
 Test pits on 11 Record Maps.
 Plotting miscellaneous changes and additions.
 Approved 1,249 permits for new subsurface installations, and assigned necessary locations.
 Approved 465 permits for miscellaneous construction and repairs.
 Compiled, indexed, and filed data on borings and franchises.
 Furnished information to City Departments, Public Service Corporations, Contractors, Surveyors and Engineers.
 Copied and filed field information and notes regarding substructures in the area under survey.
 Furnished data for all contract drawings of Sewer Bureau and Highway Department.

MISCELLANEOUS

MAPS FILED WITH THIS BUREAU:

Final Sections (Atlas sheets)	10
Special final maps	8
Alteration maps	53
Draught damage maps (original)	29
Draught damage maps (tracings)	29
Profile maps	0
Damage estimates	12
Guaranteed maps	300
Surveys for Corporation Counsel	10
Sales Maps	40
Tax Maps	150
Miscellaneous	45
Zone maps	28

MAPS DISTRIBUTED BY THIS BUREAU:

For official use	775
Sold to the public	251

COPIED AT THE COUNTY CLERK'S OFFICE:

Sales maps	50
Guaranteed surveys	200
Deed descriptions	490

Searches	180
Investigations	65

BLUE PRINTS MADE BY THIS BUREAU:

For this bureau and other City Departments	2,719
For the Long Island Railroad	32
For the Title Guarantee and Trust Company.....	73
For the U. S. Title Guarantee Company	7
For the Lawyers' Title Insurance and Trust Company	72
For Home Title Insurance Company	9
For Civil Engineers and City Surveyors	207

**BUREAU OF BUILDING
CONSTRUCTION AND
ALTERATION**

BUREAU OF BUILDING CONSTRUCTION AND ALTERATION

VIOLATIONS OF THE LAW DURING THE YEAR ENDED DECEMBER 31, 1917

Nature of Violation	Pending Dec. 31, 1916	Received Since	Total for Disposition	Removed	Pending Dec. 31, '17	Referred to Corp. Counsel
Defective construction, plumbing, etc.	1,004	572	1,576	586	990	50
Erecting altering or mov- ing without a permit	892	790	1,682	859	832	19
Unsafe buildings	161	119	280	96	184	..
Totals	2,057	1,481	3,538	1,532	2,006	69

RECORD OF INSPECTIONS

Kind	Number
Construction	100,256
Plumbing	42,209
Plastering	9,514
Elevator	1,378
Totals	153,357

WORK COMPLETED

New Buildings	2,940
Alterations	3,260

REPORT OF THE ACTIVITIES OF THE BUREAU OF BUILDINGS, BOROUGH OF QUEENS, FOR THE YEAR 1917

There is little that can be said, except that the great falling off between 1917 and the previous years was due to war conditions. An investigation of the plans filed and a comparison of the figures with those of the other boroughs will show that we did better than any of the other boroughs, and that we got more than our share of the war work.

PLANS AND APPLICATIONS FOR NEW BUILDINGS

FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1917

FIRST WARD

Number	Classification	Estimated Cost
	Frame Dwellings	
22	Brick Dwellings	\$ 74,000
	Frame Stores and Dwellings	
37	Brick Stores and Dwellings	300,000
	Frame Tenements	
48	Brick Tenements	744,500
	Frame Stores and Tenements	
5	Brick Stores and Tenements	69,000
2	Public Buildings (Amusements)	21,000
	Public Buildings (Municipal)	
22	Manufactories and Workshops	555,950
	Churches	
1	Schools	60,000.
	Hotels, Boarding Houses, etc.	
	Hospitals	

13	Storage Warehouses, etc.	168,200
	Office Buildings	
34	Garages	116,040
	Stables	
28	Other Frame Structures	7,883
<hr/>		
212	Totals	\$2,116,573

PLANS AND APPLICATIONS FOR NEW BUILDINGS
FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1917
SECOND WARD

<i>Number</i>	<i>Classification</i>	<i>Estimated Cost</i>
162	Frame Dwellings	\$ 607,275
257	Brick Dwellings	861,175
23	Frame Stores and Dwellings	26,770
28	Brick Stores and Dwellings	210,650
	Frame Tenements	
6	Brick Tenements	540,000
	Frame Stores and Tenements	
16	Brick Stores and Tenements	95,000
1	Public Buildings (Amusements)	1,000
	Public Buildings (Municipal)	
9	Manufactories and Workshops	619,250
2	Churches	31,000
	Schools	
	Hotels, Boarding Houses, etc.	
	Hospitals	
	Storage, Warehouses, etc.	
4	Office Buildings	128,000
102	Garages	40,200
	Stables	
97	Other Frame Structures	13,200
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707	Totals	\$3,173,520

PLANS AND APPLICATIONS FOR NEW BUILDINGS
FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1917
THIRD WARD

<i>Number</i>	<i>Classification</i>	<i>Estimated Cost</i>
197	Frame Dwellings	\$ 974,650
103	Brick Dwellings	510,600
3	Frame Stores and Dwellings	9,750
4	Brick Stores and Dwellings	27,600
	Frame Tenements	
4	Brick Tenements	300,000
	Frame Stores and Tenements	
	Brick Stores and Tenements	
	Public Buildings (Amusements)	
	Public Buildings (Municipal)	

4	Manufactories and Workshops	159,700
2	Churches	31,000
	Schools	
	Hotels, Boarding Houses, etc.	
	Hospitals	
1	Storage, Warehouses, etc.	8,000
	Office Buildings	
46	Garages	21,700
	Stables	
51	Other Frame Structures	7,675
<hr/>		
415	Totals	\$2,050,675

PLANS AND APPLICATIONS FOR NEW BUILDINGS
FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1917
FOURTH WARD

<i>Number</i>	<i>Classification</i>	<i>Estimated Cost</i>
1,089	Frame Dwellings	\$1,306,575
324	Brick Dwellings	1,166,475
40	Frame Stores and Dwellings	50,080
	Frame Tenements	
4	Brick Tenements	152,000
	Frame Stores and Tenements	
2	Brick Stores and Tenements	28,100
	Public Buildings (Amusements)	
	Public Buildings (Municipal)	
2	Manufactories and Workshops	26,200
2	Churches	57,000
	Schools	
	Hotels, Boarding Houses, etc.	
	Hospitals	
2	Storage, Warehouses, etc.	31,475
2	Office Buildings	16,000
99	Garages	24,085
	Stables	
64	Other Frame Structures	7,665
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1,680	Totals	\$3,117,780

PLANS AND APPLICATIONS FOR NEW BUILDINGS
FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31, 1917
FIFTH WARD

<i>Number</i>	<i>Classification</i>	<i>Estimated Cost</i>
516	Frame Dwellings	\$ 982,895
14	Brick Dwellings	38,200
8	Frame Stores and Dwellings	14,000
2	Brick Stores and Dwellings	19,200
	Frame Tenements	
	Brick Tenements	
	Frame Stores and Tenements	
	Brick Stores and Tenements	
	Public Buildings (Amusements)	
	Public Buildings (Municipal)	

2	Manufactories and Workshops	35,000
	Churches	
1	Schools	25,000
2	Hotels, Boarding Houses, etc.	48,000
	Hospitals	
	Storage, Warehouses, etc.	
1	Office Buildings	3,000
21	Garages	5,650
	Stables	
30	Other Frame Structures	5,760
<hr/>		
597	Totals	\$1,176,705

PLANS AND APPLICATIONS FOR NEW BUILDINGS

FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31

<i>Classification</i>	1914			1915			1916			1917		
	<i>No.</i>	<i>Est. Cost</i>	<i>No.</i>	<i>Est. Cost</i>	<i>No.</i>	<i>Est. Cost</i>	<i>No.</i>	<i>Est. Cost</i>	<i>No.</i>	<i>Est. Cost</i>	<i>No.</i>	<i>Est. Cost</i>
Frame Dwellings	2309	\$ 5,823,984	2317	\$ 6,610,609	2079	\$ 6,406,610	1964	\$ 3,871,395	1964	\$ 3,871,395		
Brick Dwellings	505	2,123,550	1125	4,645,350	737	3,393,934	720	2,650,450	720	2,650,450		
Frame Stores and Dwellings	86	204,075	105	295,735	26	83,200	74	100,600	74	100,600		
Brick Stores and Dwellings	234	1,180,850	346	1,843,900	310	1,726,150	71	809,575	71	809,575		
Frame Tenements	11	48,400	7	31,000								
Brick Tenements	293	3,649,800	262	2,910,800	258	3,728,500	62	1,736,500	62	1,736,500		
Frame Stores and Tenements												
Brick Stores and Tenements	30	361,500	50	599,000	25	263,000	23	192,100*	23	192,100*		
Public Buildings (Amusement)	40	275,200	28	458,400	21	353,000	3	22,000	3	22,000		
Public Buildings (Municipal)												
Manufactories and Workshops	53	2,056,200	61	1,222,200	45	2,015,900	39	1,396,100	39	1,396,100		
Churches	12	139,800	16	142,200	9	139,900	6	119,000	6	119,000		
Schools	8	925,000	11	124,500	2	100,000	3	85,000	3	85,000		
Hotels, Boarding Houses, etc.	2	41,000	4	79,500	4	92,700	2	48,000	2	48,000		
Storage, Warehouse, etc.	18	488,400	25	58,100	27	233,625	16	207,675	16	207,675		
Hospitals	1	1,000										
Office Buildings	5	60,000	9	493,800	11	320,500	7	147,000	7	147,000		
Garages	347	241,136	621	386,016	975	583,641	302	207,675	302	207,675		
Stables	79	139,100	87	212,295	32	51,320						
Other Frame Structures	563	239,295	682	223,987	772	517,402	270	42,183	270	42,183		
Totals	4596	\$18,098,290	5756	\$20,316,392	5333	\$20,009,683	3612	\$11,635,253	3612	\$11,635,253		

PLANS AND APPLICATIONS FOR ALTERATIONS
FILED AND ACTED UPON DURING THE YEAR ENDED DECEMBER 31

Classification	1914			1915			1916			1917		
	No.	Est. Cost	No.	Est. Cost	No.	Est. Cost	No.	Est. Cost	No.	Est. Cost	No.	Est. Cost
Frame Dwellings	1580	\$ 415,367	1813	\$ 415,485	1368	\$ 642,750	2495	\$ 400,398	2495	\$ 400,398		
Brick Dwellings	133	30,820	124	25,875	600	76,000	34	30,020	34	30,020		
Frame Stores and Dwellings	279	132,811	260	94,477	317	137,675	282	117,925	282	117,925		
Brick Stores and Dwellings	128	53,548	131	26,183	98	63,700	76	47,071	76	47,071		
Frame Tenements	28	5,315	45	8,170	8	10,200	17	5,712	17	5,712		
Brick Tenements	34	18,290	46	14,400	53	41,750	7	3,725	7	3,725		
Frame Stores and Tenements	26	5,800	29	5,465	10	2,200	5	1,280	5	1,280		
Brick Stores and Tenements	39	13,255	42	13,095	41	60,050	11	4,545	11	4,545		
Public Buildings (Amusements)	46	51,300	44	23,585	60	19,500	38	42,767	38	42,767		
Public Buildings (Municipal)	7	9,425	3	1,995			6	36,510	6	36,510		
Manufactories and Workshops	150	241,375	160	191,465	172	348,750	157	259,052	157	259,052		
Churches	23	18,125	18	46,430	17	37,200	26	22,910	26	22,910		
Schools	36	48,725	19	29,010	14	14,300	17	383,250	17	383,250		
Hotels, Boarding Houses, etc.	40	47,725	36	42,170	86	28,900	29	42,498	29	42,498		
Hospitals	4	2,000					3	25,389	3	25,389		
Storage, Warehouses, etc.	35	29,155	33	26,540	33	231,000	41	41,020	41	41,020		
Office Buildings	23	35,486	26	30,660	40	65,600	49	30,496	49	30,496		
Garages	40	25,780	39	21,495	107	20,100	75	131,930	75	131,930		
Stables	39	27,990	46	26,175	22	8,740	27	8,830	27	8,830		
Other Frame Structures	219	62,889	245	34,730	311	147,077	61	14,629	61	14,629		
Totals	2909	\$1,275,181	3159	\$1,077,405	3357	\$2,055,492	3456	\$1,649,957	3456	\$1,649,957		

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